

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

5. Lease Serial No.

UTU-01195

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

UNIT #891008900A

8. Lease Name and Well No.

NBU 1022-5C-4

9. API Well No.

43-047-38522

10. Field and Pool, or Exploratory

NATURAL BUTTES

11. Sec., T., R., M., or Blk, and Survey or Area

SEC. 5, T10S, R22E

12. County or Parish

UINTAH

13. State

UTAH

1a. Type of Work: ☒ DRILL

☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator

KERR MCGEE OIL & GAS ONSHORE LP

3A. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

NENW LOT 3, 1269'FNL, 2606'FWL

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office*

24.1 MILE SOUTHEAST OF OURAY, UTAH

15. Distance from proposed*

location on to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)

1269'

16. No. of Acres in lease

577.75

17. Spacing Unit dedicated to this well

20.00

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

REFER TO
TOPO C

19. Proposed Depth

9170'

20. BLM/BIA Bond No. on file

BOND NO: WY-2357

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5188'UNGRADED GL

22. Approximate date work will start*

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature



Title

REGULATORY ANALYST

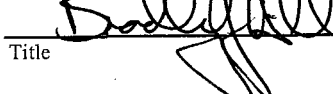
Name (Printed/Typed)

SHEILA UPCHEGO

Date

8/23/2006

Approved by (Signature)



Title

Name (Printed/Typed)

BRADLEY G. HILL

Date

08-29-06

Office ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

Federal Approval of this
Action is Necessary

RECEIVED

AUG 28 2006

DIV. OF OIL, GAS & MINING

T10S, R22E, S.L.B.&M.

Kerr McGee Oil & Gas Onshore LP

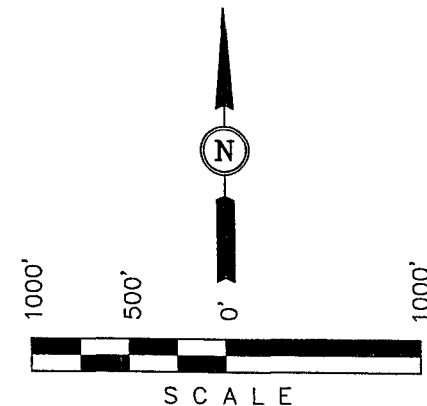
Well location, NBU #1022-5C-4, located as shown in LOT 3 of Section 5, T10S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

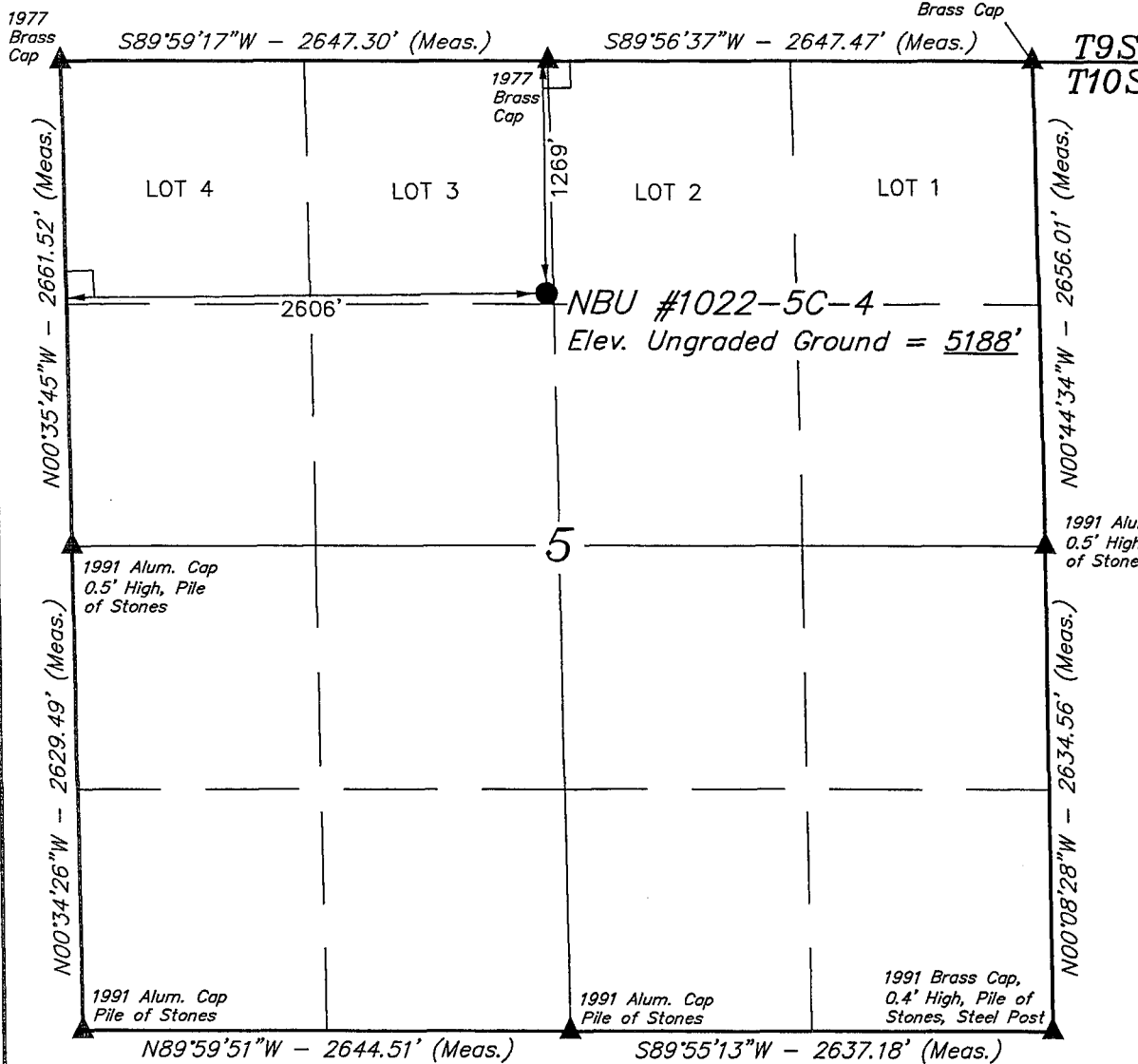
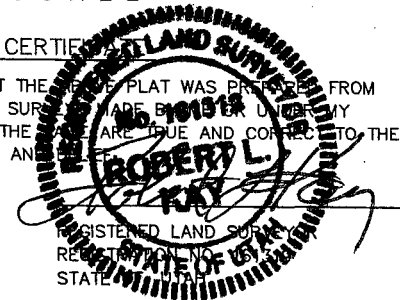
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



NOTE:
FOOTAGES FOR PROPOSED WELL HEAD ARE CALCULATED PARALLEL TO SECTION LINES

LEGEND:

- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 39°58'54.37" (39.981769)
LONGITUDE = 109°27'50.18" (109.463939)

(NAD 27)
LATITUDE = 39°58'54.50" (39.981806)
LONGITUDE = 109°27'47.72" (109.463256)

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 04-11-06	DATE DRAWN: 04-20-06
PARTY P.J. J.A. S.L.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE Kerr McGee Oil & Gas Onshore LP	

NBU #1022-5C-4
SEENENW LOT 3, SEC 5-T10S-R22E
UINTAH COUNTY, UTAH
UTU-01195

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1327'
Top of Birds Nest Water	1664'
Mahogany	2298'
Wasatch	4531'
Mesaverde	7040'
MVU2	7911'
MVL1	8567'
TD	9170'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1327'
	Top of Birds Nest Water	1664'
	Mahogany	2298'
	Wasatch	4531'
Gas	Mesaverde	7040'
Gas	MVU2	7911'
Gas	MVL1	8567'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9170' TD, approximately equals 5685 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3668 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please see Natural Buttes Unit SOP.

10. **Other Information:**

Please see Natural Buttes Unit SOP.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE August 23, 2006
WELL NAME NBU 1022-5C-4 TD 9,170' MD/TVD
FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,188' GL KB 5,203'
SURFACE LOCATION SEENW SECTION 5, T10S, R22E 1269'FNL, 2606'FWL BHL Straight Hole
Latitude: 39.981769 Longitude: 109.463939
OBJECTIVE ZONE(S) Wasatch/Mesaverde
ADDITIONAL INFO Regulatory Agencies: BLM (SURF & MINERALS), UDOGM, Tri-County Health Dept.

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Catch water sample, if possible, from 0 to 4,531'					
	Green River @	1,327'			
	Top of Birds Nest Water @	1664'			
	Preset f/ GL @				
	2,170' MD				
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
	Mahogany @	2,298'			
Mud logging program TBD Open hole logging program f/ TD - surf csg					
	Wasatch @	4,531'			
	Mverde @	7,040'			
	MVU2 @	7,911'			
	MVL1 @	8,567'			
			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.5 ppg
					Max anticipated Mud required 11.5 ppg
	TD @	9,170'			



KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2170	32.30	H-40	STC	0.65*****	1.35	4.14
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9170	11.60	I-80	LTC	2.24	1.16	2.17

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
 MASP 3466 psi

***** Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2			NOTE: If well will circulate water to surface, option 2 will be utilized				
	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,030'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	60%	11.00	3.38
	TAIL	5,140'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1440	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

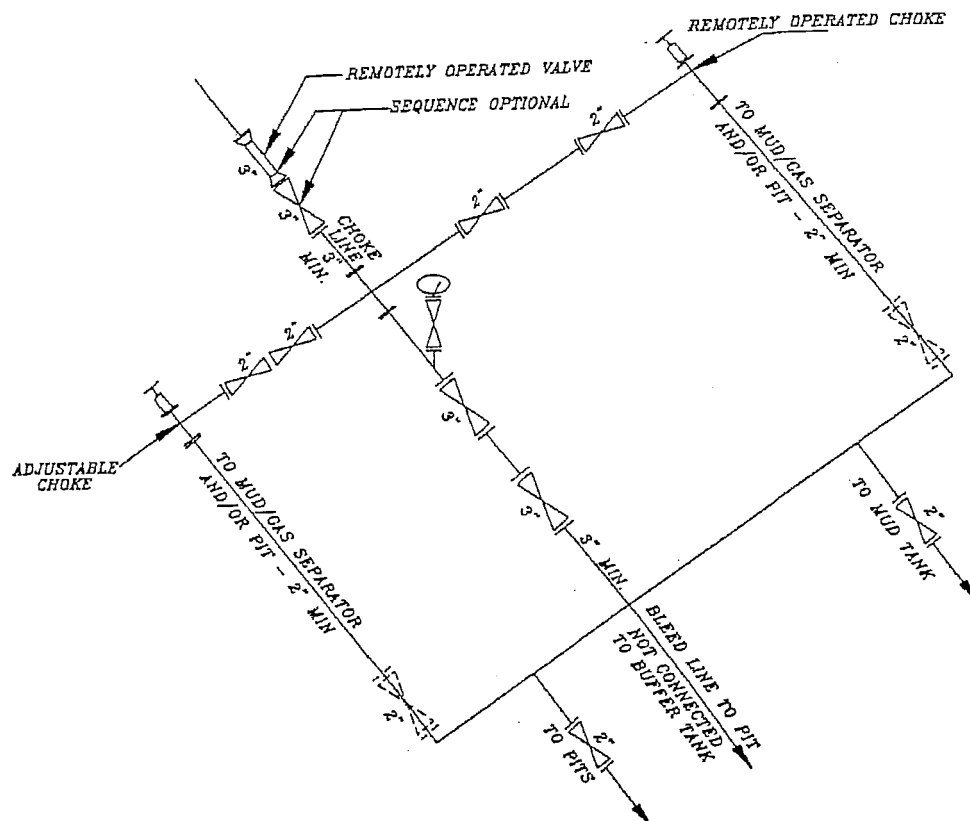
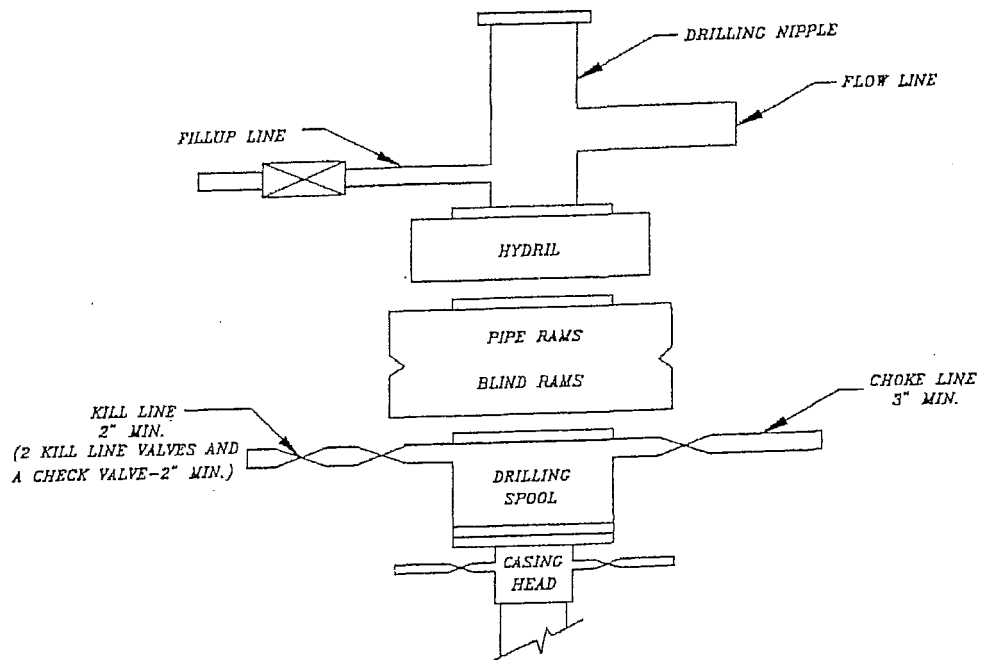
DATE: _____

DRILLING SUPERINTENDENT:

Randy Bayne

DATE: _____

5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU #1022-5C-4
SEENENW LOT 3, SEC 5-T10S-R22E
UINTAH COUNTY, UTAH
UTU-01195

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

Approximately 0.1 +/- miles of access road is proposed. Please refer to the attached Topo Map B.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please see the Natural Buttes Unit SOP.

Approximately 483' +/- of 4" pipeline is proposed to tie-in to an existing pipeline is proposed. Refer to Topo Map D.

Variances to Best Management Practices (BMPs) Requested:

The pipeline shall be installed on surface within the access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A 20 mil reserve pit liner with felt will be used. As discussed at the on-site inspection.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

When the pit is backfilled, the topsoil pile shall be spread on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The following seed mixture will be used to reclaim the surface for interim reclamation using appropriate reclamation methods. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for *drilled* seed are:

Galletta Grass

20 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. Surface Ownership:

The well pad and access road are located on lands owned by:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Other Information:

A Class III Archaeological Survey Report No. 06-164, completed on May 3, 2006 for the well location; also, is submitted along with the Application for Permit to Drill. The paleontological survey have been performed and will be filed when received by our office.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying with the boundaries of the unit.

13. Lessee's or Operator's Representative & Certification:

Sheila Ucphego
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

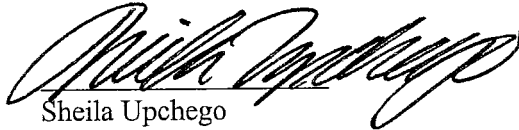
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by BLM Nationwide Bond #WY-2357.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Sheila Upchego

8/23/2006

Date

Kerr-McGee Oil & Gas Onshore LP
NBU #1022-5C-4
SECTION 5, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE PROPOSED ACCESS ROAD TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 55.7 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-5C-4

LOCATED IN UTAH COUNTY, UTAH
SECTION 5, T10S, R22E, S.L.B.&M.

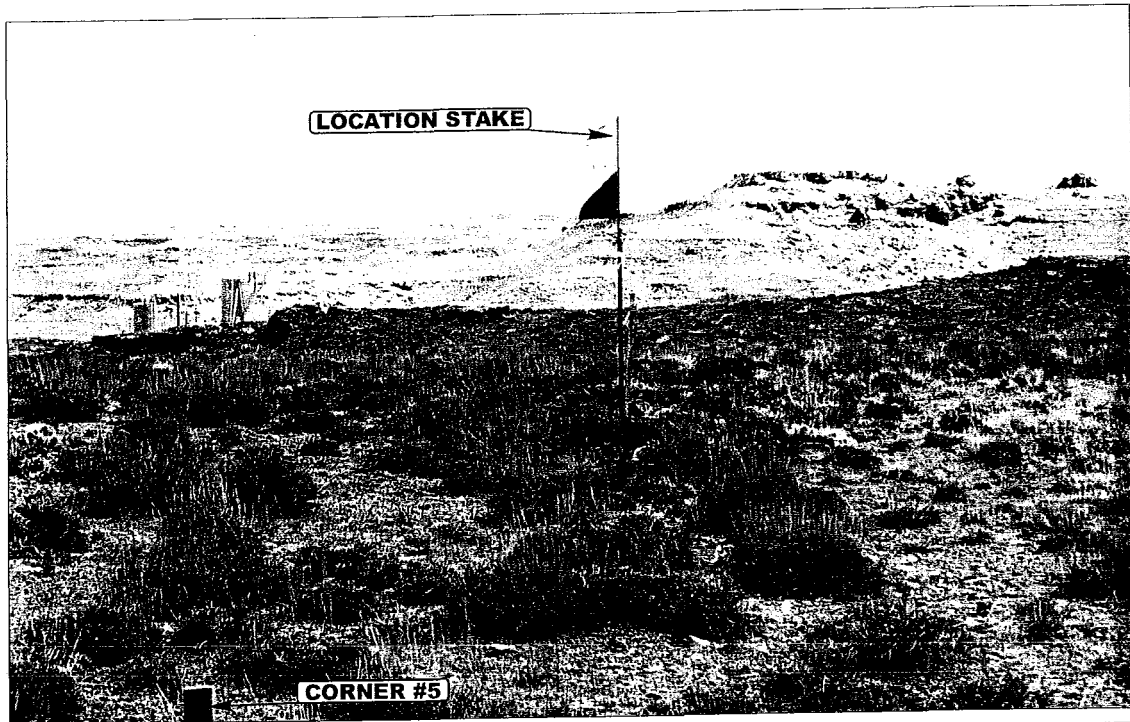


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

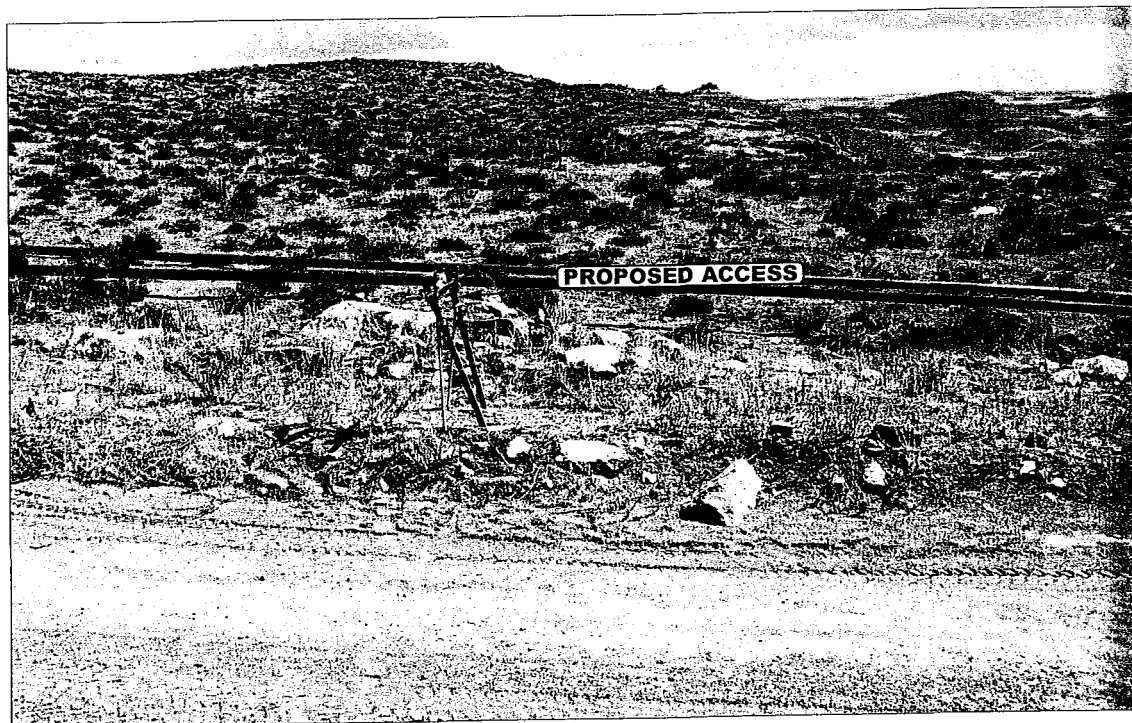


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

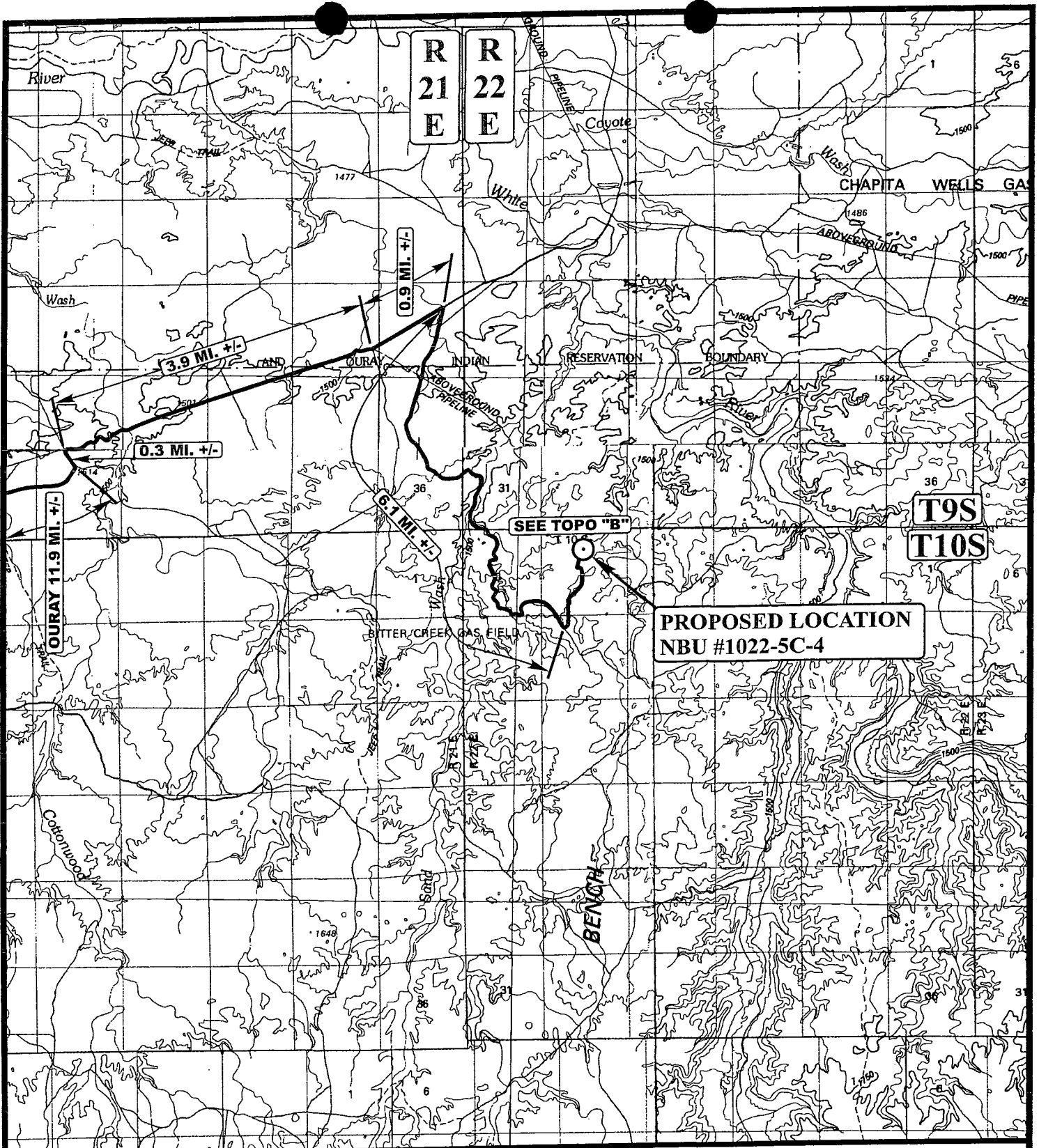
04 18 06
MONTH DAY YEAR

PHOTO

TAKEN BY: P.J.

DRAWN BY: C.P.

REVISED: 00-00-00



LEGEND:

○ PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-5C-4

SECTION 5, T10S, R22E, S.L.B.&M.

1269' FNL 2606' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



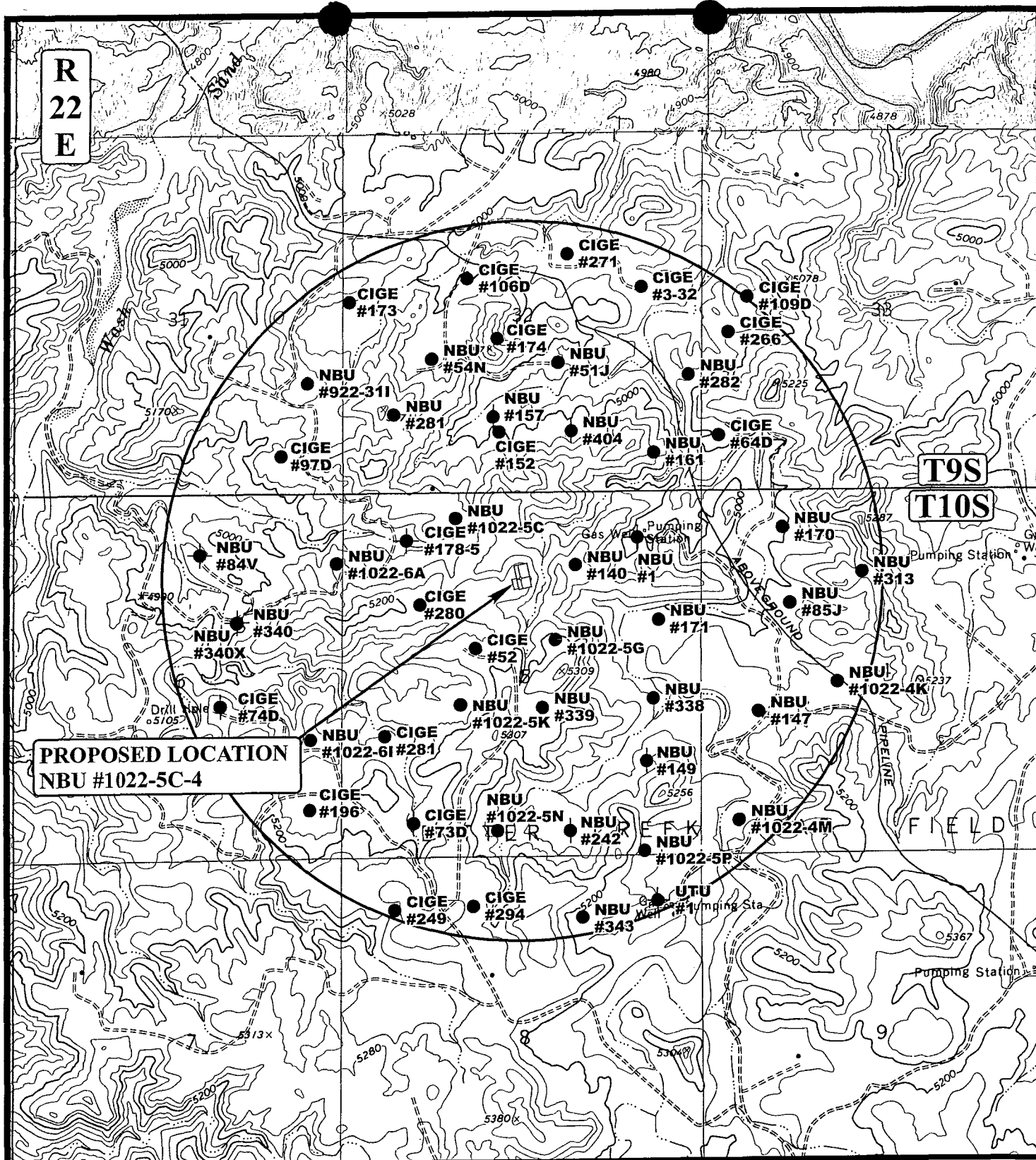
TOPOGRAPHIC
MAP

04 18 06
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00



B
TOPO



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

Kerr-McGee Oil & Gas Onshore LP

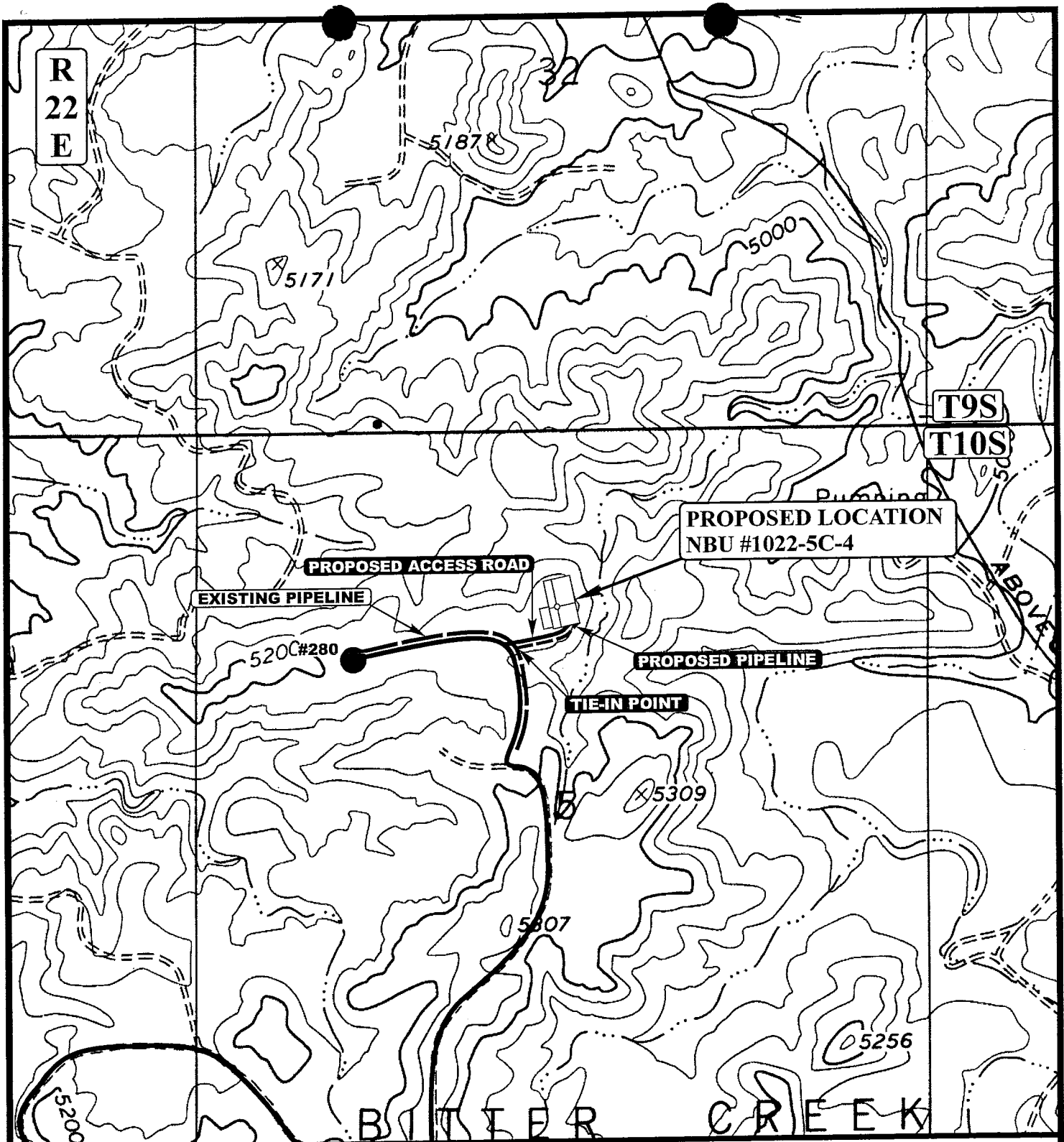
NBU #1022-5C-4
SECTION 5, T10S, R22E, S.L.B.&M.
1269' FNL 2606' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC	04	18	06	C TOPO
MAP	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



APPROXIMATE TOTAL PIPELINE DISTANCE = 483' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-5C-4

SECTION 5, T10S, R22E, S.L.B.&M.

1269' FNL 2606' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

04 **18** **06**
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00

D
TOPO

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-5C-4

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 5, T10S, R22E, S.L.B.&M.

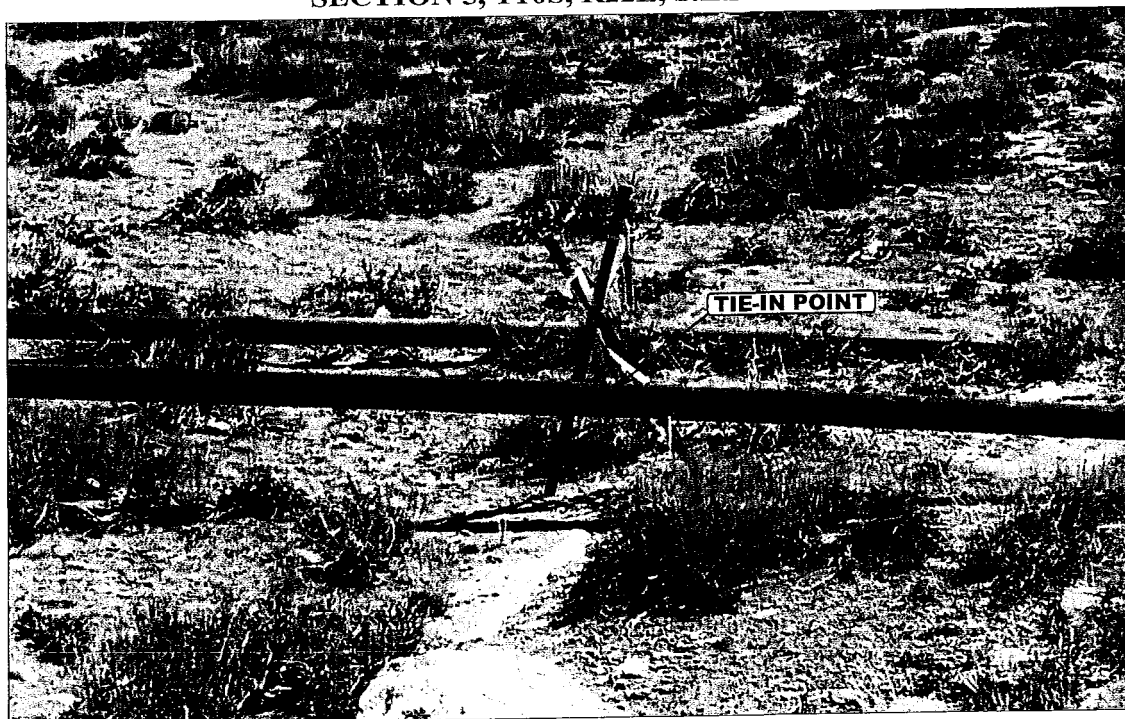


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: NORTHEASTERLY

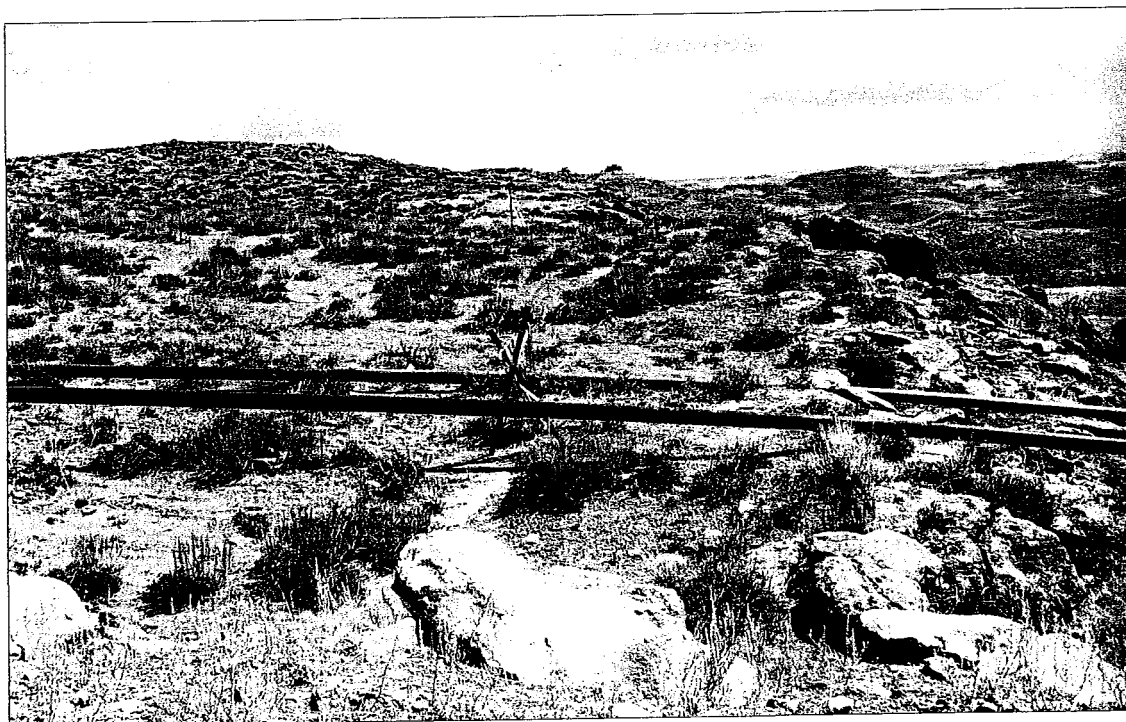


PHOTO: VIEW OF PIPELINE AT LOCATION

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

04 18 06
MONTH DAY YEAR

PHOTO

TAKEN BY: P.J.

DRAWN BY: C.P.

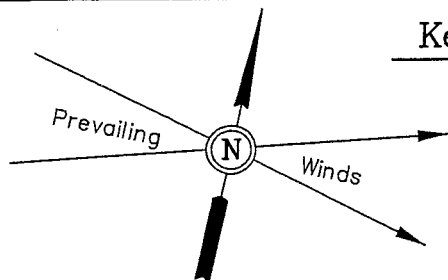
REVISED: 00-00-00

LOCATION LAYOUT FOR

NBU #1022-5C-4

SECTION 5, T10S, R22E, S.L.B.&M.

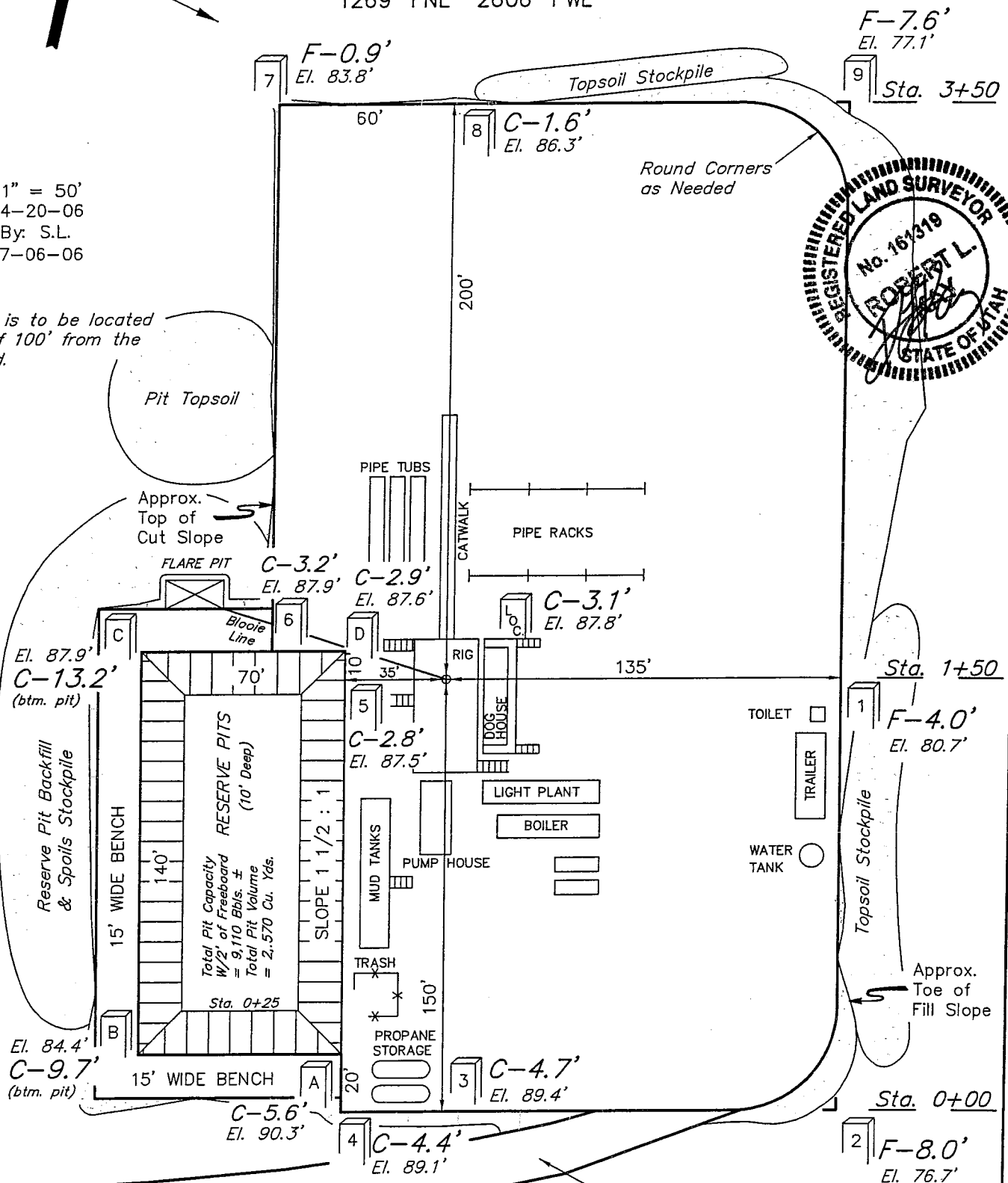
1269' FNL 2606' FWL



SCALE: 1" = 50'
DATE: 04-20-06
Drawn By: S.L.
DATE: 07-06-06

NOTE:

Flare Pit is to be located
a min. of 100' from the
Well Head.



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5187.8'
FINISHED GRADE ELEV. AT LOC. STAKE = 5184.7'

TYPICAL CROSS SECTIONS FOR

NBU #1022-5C-4

SECTION 5, T10S, R22E, S.L.B.&M.

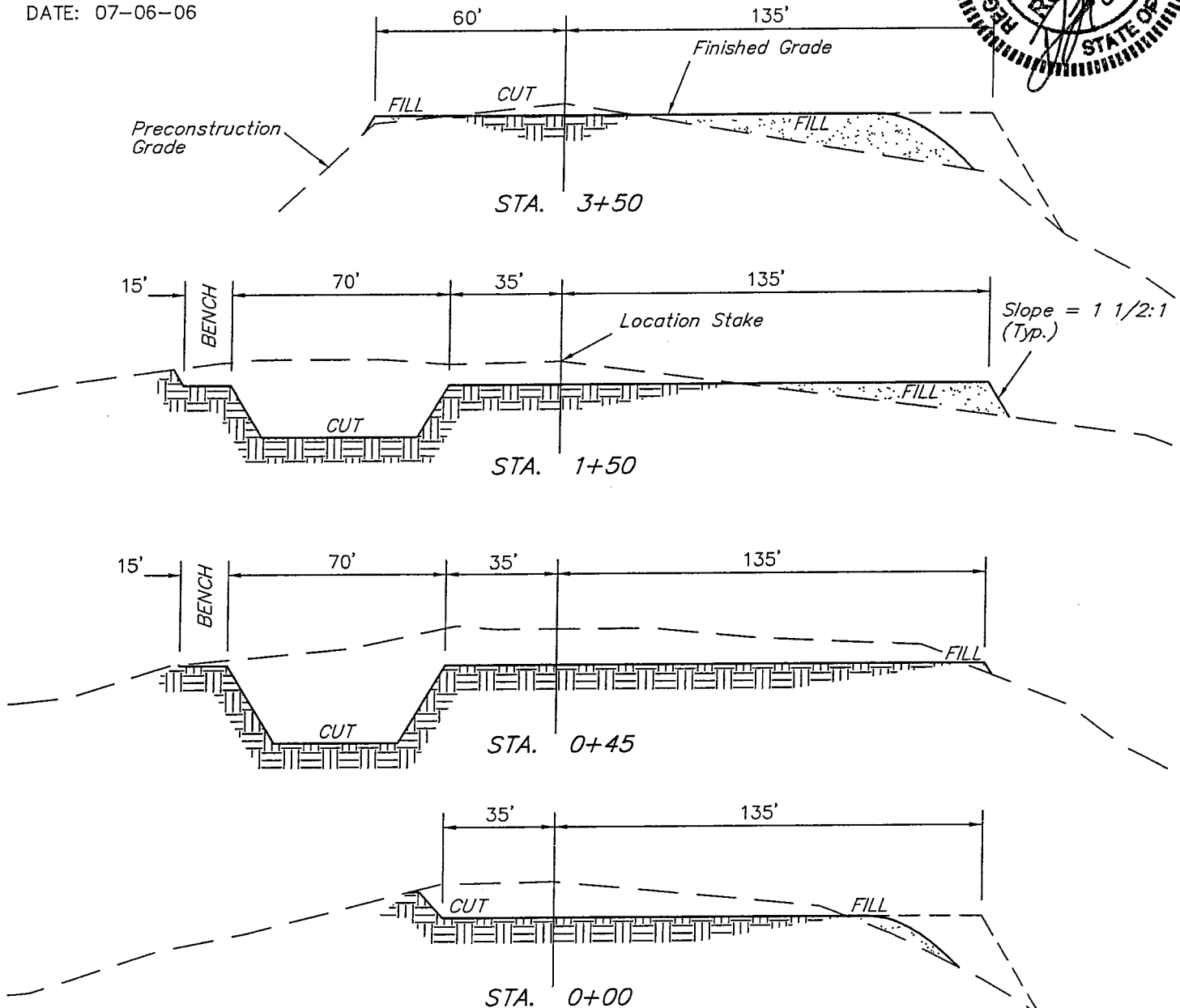
1269' FNL 2606' FWL

1" = 20'
X-Section
Scale
1" = 50'

DATE: 04-20-06

Drawn By: S.L.

DATE: 07-06-06



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,620 Cu. Yds.
Remaining Location	= 6380 Cu. Yds.
TOTAL CUT	= 8,000 CU.YDS.
FILL	= 5,090 CU.YDS.

EXCESS MATERIAL	= 2,910 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,910 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/28/2006

API NO. ASSIGNED: 43-047-38522

WELL NAME: NBU 1022-5C-4

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

N NEW 05 100S 220E

SURFACE: 1269 FNL 2606 FWL

BOTTOM: 1269 FNL 2606 FWL

COUNTY: UINTAH

LATITUDE: 39.98179 LONGITUDE: -109.4632

UTM SURF EASTINGS: 631226 NORTHINGS: 4426657

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01195

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WY-2357)
N Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-8496)
N RDCC Review (Y/N)
(Date: _____)
N/A Fee Surf Agreement (Y/N)
N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

____ R649-2-3.
Unit: NATURAL BUTTES
____ R649-3-2. General
Siting: 460' From Qtr/Qtr & 920' Between Wells
____ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' fr 4 bdr g & 2 uncomm. Tracts
____ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

August 29, 2006

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 Plan of Development Natural Buttes Unit Uintah
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(PZ MesaVerde)		
43-047-38513	NBU 1022-3M-4T	Sec 03 T10S R22E 0639 FSL 0665 FWL
43-047-38514	NBU 1022-4D-1T	Sec 04 T10S R22E 0565 FNL 1162 FWL
43-047-38515	NBU 1022-41-4	Sec 04 T10S R22E 1656 FSL 0537 FEL
43-047-38516	NBU 1022-4E-1T	Sec 04 T10S R22E 1623 FNL 1289 FWL
43-047-38517	NBU 1022-4J-4T	Sec 04 T10S R22E 1385 FSL 1941 FEL
43-047-38511	NBU 922-34O-3	Sec 34 T09S R22E 0011 FSL 1433 FEL
43-047-38512	NBU 922-34D-3	Sec 34 T09S R22E 1217 FNL 0162 FWL
43-047-38525	NBU 1022-6G-1	Sec 06 T10S R22E 1372 FNL 1338 FEL
43-047-38526	NBU 1022-6L-1	Sec 06 T10S R22E 2451 FSL 0708 FWL
43-047-38527	NBU 1022-6P-4	Sec 06 T10S R22E 0413 FSL 0281 FEL
43-047-38528	NBU 1022-6C-4	Sec 06 T10S R22E 1178 FNL 2192 FEL
43-047-38518	NBU 1022-5O-1	Sec 05 T10S R22E 0873 FSL 1630 FEL
43-047-38519	NBU 1022-5M-2	Sec 05 T10S R22E 1219 FSL 0116 FWL
43-047-38520	NBU 1022-51-4	Sec 05 T10S R22E 1955 FSL 0139 FEL
43-047-38521	NBU 1022-5N-2	Sec 05 T10S R22E 1228 FSL 1980 FWL
43-047-38522	NBU 1022-5C-4	Sec 05 T10S R22E 1269 FNL 2606 FWL
43-047-38523	NBU 1022-5D-4T	Sec 05 T10S R22E 0696 FNL 0894 FWL
43-047-38524	NBU 1022-5L-1	Sec 05 T10S R22E 2132 FSL 0986 FWL

This office has no objection to permitting the wells at this time.



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

August 29, 2006

Kerr McGee Oil & Gas Onshore LP
1368 S 1200 E
Vernal, UT 84078

Re: Natural Buttes Unit 1022-5C-4 Well, 1269' FNL, 2606' FWL, NE NW, Sec. 5,
T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38522.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

Operator: Kerr McGee Oil & Gas Onshore LP
Well Name & Number Natural Buttes Unit 1022-5C-4
API Number: 43-047-38522
Lease: UTU-01195

Location: NE NW Sec. 5 T. 10 South R. 22 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

5. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.

UTU-01195

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

UNIT #8910089 00A

8. Well Name and No.

NBU 1022-5C-4

9. API Well No.

4304738522

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR MCGEE OIL AND GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST, VERNAL, UTAH 84078

3b. Phone No. (include area code)

(435)781-7003

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1269' FNL, 2606' FWL

NENW, SEC 5-T10S-R22E LOT 3

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other APD EXTENSION
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	DOGM
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE OPERATOR REQUESTS AUTHORIZATION FOR A ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION SO THAT THE DRILLING OPERATIONS MAY BE COMPLETED. THE ORIGINAL APD WAS APPROVED BY THE DIVISION OF OIL, GAS AND MINING ON AUGUST 29, 2006.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 07-18-07

By: [Signature]

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

RAMEY HOOPES

Title

LAND SPECIALIST I

Signature

[Signature]

Date

July 5, 2007

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

(Instructions on reverse)

JUL 17 2007

OIL, GAS & MINING

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 4304738522
Well Name: NBU 1022-5C-4
Location: NENW, SEC 5-T10S-R22E, LOT 3
Company Permit Issued to: KERR-MCGEE OIL AND GAS ONSHORE LP
Date Original Permit Issued: 8/29/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

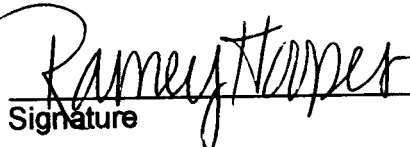
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

7/3/2007

Date

Title: LAND SPECIALIST I

Representing: Kerr McGee Oil and Gas Onshore LP

RECEIVED

JUL 17 2007

DIVISION OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01195
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217-3779		7. UNIT or CA AGREEMENT NAME: 891008900A
PHONE NUMBER: (720) 929-6226		8. WELL NAME and NUMBER: NBU 1022-5C-4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1269' FNL & 2606' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW NW 5 10S 22E		9. API NUMBER: 4304738522
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP, respectfully requests an APD Extension for one year for this location, so that drilling operations may be completed. The original APD was approved by the Utah Division of Oil, Gas, and Mining on 8/29/2006.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 07-14-08
By: [Signature]

COPY SENT TO OPERATOR

Date: 7.15.2008

Initials: KS

NAME (PLEASE PRINT) Kevin McIntyre TITLE Regulatory Analyst I
SIGNATURE [Signature] DATE 7/9/2008

(This space for State use only)

RECEIVED
JUL 11 2008

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 4304738522
Well Name: NBU 1022-5C-4
Location: SWNW Sec. 5, T10S R22E
Company Permit Issued to: Kerr-McGee Oil & Gas Onshore, LP
Date Original Permit Issued: 8/29/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

7/9/2008
Date

Title: Regulatory Analyst I

Representing: Kerr-McGee Oil & Gas Onshore, LP

RECEIVED

JUL 11 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

AUG 24 2006


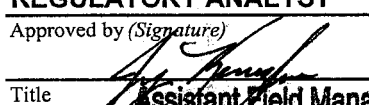
FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-01195
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP		7. If Unit or CA Agreement, Name and No. UNIT #891008900A
3A. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) (435) 781-7024	8. Lease Name and Well No. NBU 1022-5C-4
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENNW LOT 3, 1269'FNL, 2606'FWL At proposed prod. Zone		9. API Well No. 43-047-38522
14. Distance in miles and direction from nearest town or post office* 24.1 MILE SOUTHEAST OF OURAY, UTAH		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1269'	16. No. of Acres in lease 577.75	11. Sec., T., R., M., or Blk. and Survey or Area SEC. 5, T10S, R22E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. REFER TO TOPO C	19. Proposed Depth 9170'	12. County or Parish UINTAH
20. BLM/BIA Bond No. on file BOND NO: WY-2357 WY B000291		13. State UTAH
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5188*UNGRADED GL		17. Spacing Unit dedicated to this well 20.00
22. Approximate date work will start*		23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature 	Name (Printed/Typed) SHEILA UPCHEGO	Date 8/23/2006
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) TERRY KENNER	Date AUG 25 2008
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

06 BM 1703A

Entered in AFMSS

Date 11-20-06

UDOGM

RECEIVED

SEP 02 2008

DIV. OF OIL, GAS & MINING

NOS 05/09/06

NOTICE OF APPROVAL



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore LP
Well No: NBU 1022-5C-4
API No: 43-047-38522

Location: Lot 3, Sec. 5, T10S, R22E
Lease No: UTU-01195
Agreement: Natural Buttes Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- During operations, if any vertebrate paleontological resources are discovered, all operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Vernal BLM office shall be notified within 48 hrs of the discovery, and a decision as to the preferred alternative/course of action will be rendered.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural contours, topsoil respread where appropriate, and the entire location seeded with the recommended seed mix. Seeding shall take place by broadcasting the seed and walking it into the soil with a dozer immediately after the dirt work is completed.
- Seeding shall occur in the fall (August 1st until snow or ground is frozen).

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 200 ft above the surface casing shoe.
- A cement Bond Log (CBL) shall be run from the production casing shoe to the surface casing shoe. A field copy of the CBL shall be submitted to the BLM Vernal Field Office.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$ Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: NBU 1022-5C-4

Api No: 43-047-38522 Lease Type: FEDERAL

Section 05 Township 10S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # RATHOLE

SPUDDED:

Date 01/06/2009

Time 8:00 AM

How DRY

Drilling will Commence: _____

Reported by LEW WELDON

Telephone # (435) 828-7035

Date 01/06/2009 Signed CHD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738522	NBU 1022-5C-4		NENW	5	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	1/6/2009		<u>1/15/09</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>W57MVD</u> SPUD WELL LOCATION ON 01/06/2009 AT 0800 HRS							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

JAN 06 2009

SHEILA UPCHEGO

Name (Please Print)

Signature

REGULATORY ANALYST

Title

1/6/2009

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU01195
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		6. If Indian, Allottee or Tribe Name
Contact: SHEILA UPCHEGO Email: sheila.upchego@anadarko.com		7. If Unit or CA/Agreement, Name and/or No. UNIT #891008900A
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-7024	8. Well Name and No. NBU 1022-5C-4
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T10S R22E NENW 1269FNL 2606FWL		9. API Well No. 43-047-38522
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

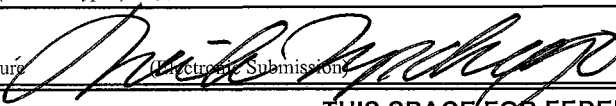
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MIRU PROPETRO AIR RIG ON 01/07/2009. DRILLED 12 1/4" SURFACE HOLE TO 2430'. RAN 9 5/8" 36# J-55 SURFACE CSG. CMT W/300 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT 210 PSI LIFT LAND PLUG FLOATS HELD. TOP OUT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD DOWN BACKSIDE WOC. 2ND TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD DOWN BACKSIDE WOC. 3RD TOP OUT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD DOWN BACKSIDE WOC. 4TH TOP OUT W/75 SX PREM CLASS G @15.8 PPG 1.15 YIELD DOWN BACKSIDE CMT TO SURFACE HOLE STAYED FULL.

WORT.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #66277 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal		
Name (Printed/Typed) SHEILA UPCHEGO	Title OPERATIONS	
Signature 	Date 01/14/2009	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED****RECEIVED****JAN 20 2009**

DIV OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
UTU01195

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
UNIT

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
NBU 1022-5C-4

2. Name of Operator

KERR-MCGEE OIL & GAS ONSHORE
Contact: SHEILA UPCHEGO
Email: sheila.upchego@anadarko.com9. API Well No.
43-047-38522

3a. Address

1368 SOUTH 1200 EAST
VERNAL, UT 84078

3b. Phone No. (include area code)

Ph: 435-781-7024

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 5 T10S R22E NENW 1269FNL 2606FWL

11. County or Parish, and State

UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Well Spud
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE.
CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 01/06/2008 AT 0800 HRS.

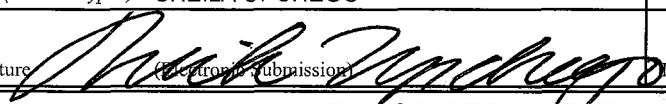
14. I hereby certify that the foregoing is true and correct.

Electronic Submission #66068 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (Printed/Typed) SHEILA UPCHEGO

Title OPERATIONS

Signature



Date 01/06/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED****JAN 12 2009****DIV. OF OIL, GAS & MINING**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU01195
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		6. If Indian, Allottee or Tribe Name
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		7. If Unit or CA/Agreement, Name and/or No. UNIT #891008900A
3b. Phone No. (include area code) Ph: 435-781-7024		8. Well Name and No. NBU 1022-5C-4
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T10S R22E NENW 1269FNL 2606FWL		9. API Well No. 43-047-38522
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

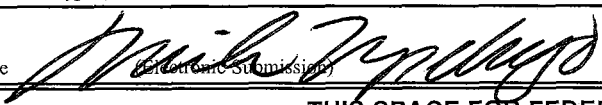
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

FINISHED DRILLING FROM 2430' TO 9125' ON 02/02/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/440 SX PREM LITE II @11.6 PPG 2.73 YIELD. TAILED CMT W/1200 SX 50/50 POZ @14.3 PPG 1.31 YIELD. WASH LINES DROP PLUG & DISPLACE W/141 BBLs WATER CLAYTREAT WATER + 1 GAL MAGNACIDE @8.3 PPG LOST RETURNS 70 BBLs IN DISPLACEMENT SLOWED PUMP RATE DOWN TO 2.6 BPM GOOF LIFT W/2601 PSI PUMPING BUMPED PLUG W/3100 PSI & PLUG HELD 500 OVER PSI 1.5 BBLs BLEED OFF FLUSH STACK & EMPTY UPRIGHT. LAYDOWN LANDING JT SET MANDREL PACKING ASSEMBLY & TEST TO 5000 PSI. NIPPLE DOWN BOP DROP 20 CHLORINE TABS DOWN CSG INSTALL NIGHT CAP CLEAN MUD PITS.

RELEASED PIONEER RIG 68 ON 02/03/2009 AT 2130 HRS.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #67003 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal		
Name (Printed/Typed) SHEILA UPCHEGO	Title OPERATIONS	
Signature 	Date 02/04/2009	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ******FEB 09 2009****DIV OF OIL, GAS & MINING**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU01195
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		6. If Indian, Allottee or Tribe Name
Contact: SHEILA UPCHEGO Email: sheila.upchego@anadarko.com		7. If Unit or CA/Agreement, Name and/or No. UNIT #891008900A
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-7024	8. Well Name and No. NBU 1022-5C-4
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T10S R22E NENW 1269FNL 2606FWL		9. API Well No. 43-047-38522
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

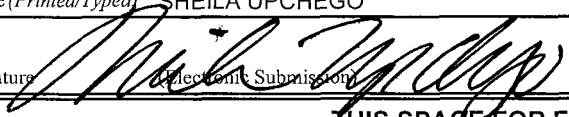
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THE SUBJECT WELL WAS PLACED ON PROUDCTION ON 02/27/2009 AT 9:00 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #67742 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal	
Name (Printed/Typed) SHEILA UPCHEGO	Title OPERATIONS
Signature 	Date 03/02/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

DIV. OF OIL, GAS & MINING

RECEIVED
MAR 04 2009

ROCKIES

Operation Summary Report

Well NBU 1022-5C-4			Spud Conductor 1/6/2009			Spud Date 1/7/2009			
Project UTAH			Site UINTAH				Rig Name No PROPETRO/, PIONEER 68/68		
Event DRILLING			Start Date 1/7/2009				End Date 2/3/2009		
Active Datum RKB @5,206 00ft (above Mean Sea Level)			UWI 0/10/S/22/E/5/0/NENW/6/PM/N/1,269 00/W/0/2,606 00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation	
1/7/2009	16 00 - 0 00	8 00	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1600 HR 1/7/08 DA AT REPORT TIME 540'	
1/8/2009	0 00 - 12 00	12 00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1110'	
	12 00 - 0 00	12 00	DRLSUR	02		P		RIG DRILLING AHEAD PICKED UP ALITTLE WATER @ 1270' DRILL TO 1410' @ REPORT TIME	
1/9/2009	0 00 - 12 00	12 00	DRLSUR	02		P		RIG DRILLING AHEAD HIT TRONA WATER @ 1560' CIRCULATING WITH SKID PUMP 1680'	
	12 00 - 0 00	12 00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP NO RETURNS 1950'	
1/10/2009	0 00 - 6 00	6 00	DRLSUR	02		P		RIG DRILLED TO 2040' STUCK PIPE	
	6 00 - 15 00	9 00	DRLSUR	16	B	X		WORK STUCK PIPE FREE CONDITION HOLE	
	15 00 - 0 00	9 00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 2280'	
1/11/2009	0 00 - 9 00	9 00	DRLSUR	02		P		RIG T/D @ 2430' CONDITION HOLE 1 HR RUN SURVEY 1 75 DEG	
	9 00 - 12 00	3 00	DRLSUR	05		P		TRIP DP OUT OF HOLE	
	12 00 - 15 00	3 00	DRLSUR	11		P		RUN 2378' OF 9 5/8 CSG AND RIG DOWN AIR RIG	
	15 00 - 16 00	1 00	DRLSUR	15		P		CEMENT 1ST STAGE WITH 300 SKS TAIL @ 15 8# 1 15 5 0 GAL/SK NO RETURNS TO PIT 210 PSI LIFT LAND PLUG FLOATS HELD	
	16 00 - 16 00	0 00	DRLSUR	15		P		1ST TOP JOB 150 SKS DOWN BS WOC	
	16 00 - 19 30	3 50	DRLSUR	15		P		2ND TOP JOB 100 SKS DOWN BS WOC	
	19 30 - 21 30	2 00	DRLSUR	15		P		3RD TOP JOB 125 SKS DOWN BS WOC	
	21 30 - 23 30	2 00	DRLSUR	15		P		4TH TOP JOB 75 SKS DOWN BS CEMENT TO SURFACE AND STAYED AT SURFACE	
1/24/2009	23 30 - 23 30	0 00	DRLSUR					NO VISIBLE LEAKS PIT 20% FULL WORT	
	0 00 - 7 00	7 00	RDMO	01	E	P		RDRT F/MOVE TO NBU 1022-5C-4	
	7 00 - 18 00	11 00	MIRU	01	A	P		TRUCK W/L&S TRUCKING 8 TRUCKS,2-FORKLIFT,1 J&C CRAIN	
1/25/2009	18 00 - 0 00	6 00	MIRU	12	D	P		SHUT DOWN F/ DAYLITE	
	0 00 - 7 00	7 00	MIRU	12	D	S		SDFN	
	7 00 - 0 00	17 00	MIRU	01	B	P		SPOT RIG NOON,RURT	
1/26/2009	0 00 - 4 00	4 00	PRPSPD	13	A	P		NUBOP,CHOKE ,FLARE LINES &FUNCTION TEST	
	4 00 - 9 00	5 00	PRPSPD	13	C	P		TEST	
								BOP,CHOKE,KILL,RAMS-5K,ANN-2 5K,CSG-1 5K,2 50 LOWS	
	9 00 - 15 00	6 00	PRPSPD	05	A	P		INSTALLWEARRIN,P/U BHA & DP,TAG 2303'	
	15 00 - 16 00	1 00	PRPSPD	04	A	P		KELLY UP ,INSTALL ROTATING RUBBER,CIRC W/BOTH PUMPS	
	16 00 - 17 00	1 00	PRPSPD	02	F	P		DRILL CEMENT & FE 2303-2448'	
1/27/2009	17 00 - 18 00	1 00	DRLPRO	02	B	P		DRILL NEW 7 875,F/2448 TO 2529	
	18 00 - 18 30	0 50	DRLPRO	09	A	P		SURVEY@2459=1 6	
	18 30 - 0 00	5 50	DRLPRO	02	B	P		DRILL F/2529 TO 3036,AVG 92 WT 8 9/34	
	0 00 - 0 30	0 50	DRLPRO	09	A	P		SURVEY@2960=1 26	
	0 30 - 6 00	5 50	DRLPRO	02	B	P		DRILL F/3036 TO 3573',AVG 97 WT 8 9/34	
	6 00 - 6 30	0 50	DRLPRO	09	A	P		SURVEY@3503=1 22	
	6 30 - 7 30	1 00	DRLPRO	02	B	P		DRILL F/3573 TO 3637,AVG 65 WT 9 0/36	
	7 30 - 8 00	0 50	DRLPRO	06	A	P		RIG SERVICE	
	8 00 - 16 30	8 50	DRLPRO	02	B	P		DRILL F/3637 TO 4554,AVG 108 WT 9 5/37	
	16 30 - 17 00	0 50	DRLPRO	09	A	P		SURVEY@4484=1 66	

ROCKIES

Operation Summary Report

Well: NBU 1022-5C-4			Spud Conductor: 1/6/2009				Spud Date: 1/7/2009	
Project: UTAH			Site: UINTAH				Rig Name No: PROPETRO/, PIONEER 68/68	
Event: DRILLING			Start Date: 1/7/2009				End Date: 2/3/2009	
Active Datum: RKB @5,206.00ft (above Mean Sea Level)			UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/O/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
1/28/2009	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRILL F/4554 TO 5125,AVG 82 WT 9.8/38
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/5125 TO 5560,AVG 72 WT 9.9/38
	6:00 - 6:30	0.50	DRLPRO	09	A	P		SURVEY@5490=.93
	6:30 - 14:30	8.00	DRLPRO	02	B	P		DRILL F/5560 TO 5971,AVG 52 WT 10.1/38
	14:30 - 15:00	0.50	DRLPRO	06	A	P		RIG SERVICE
1/29/2009	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL F/5971 TO 6368,AVG 44 WT 10.2/40
	0:00 - 11:00	11.00	DRLPRO	02	B	P		DRILL F/6368 TO 6635,AVG 24 WT 10.4/36
	11:00 - 16:30	5.50	DRLPRO	05	A	P		DROP SURVEY PUMPPILL,POOH,TIGHT 4511
	16:30 - 22:30	6.00	DRLPRO	05	A	S		CHANGE BIT,TIH W/#2,CIRC @SHOE,L/D 2DC&IBS,RERUN MUD MTR,wash 60' TO BTM
1/30/2009	22:30 - 0:00	1.50	DRLPRO	02	B	P		DRILL F/6635 TO 6680,AVG 30 WT 10.4/38
	0:00 - 14:00	14.00	DRLPRO	02	B	P		DRILL F/6680 TO 7296,616AVG 44WT10.4/38
	14:00 - 14:30	0.50	DRLPRO	06	A	P		RIG SERVICE
1/31/2009	14:30 - 0:00	9.50	DRLPRO	02	B	P		DRILL F/7296 TO 7660,364'AVG 40 WT10.7/38
	0:00 - 14:00	14.00	DRLPRO	02	B	P		DRILL F/7660 TO 8215,555'=AVG 40,WT 11.2/40SPM120,SPP1900-2100STWT 176-166-160,WOB 18-22,DIFF200,GPM-422
	14:00 - 14:30	0.50	DRLPRO	06	A	P		CROWN BLOCKS SWIVAL,RIG
2/1/2009	14:30 - 0:00	9.50	DRLPRO	02	B	P		DRILL F/8215 TO 8548,333'AVG 35,WT11.6/38,SPM120,SPP2000-2300,STWT-180-170-160WOB18-22DIFF250,GPM-422
	0:00 - 7:00	7.00	DRLPRO	02	B	P		DRILL F/8548 TO 8682,134'AVG 17,WT11.7/40 SPM120,SPP2000-2300,STWT180-170-162WOB20-25,DIFF250,GPM422
	7:00 - 13:30	6.50	DRLPRO	05	A	S		PUMPPILL,DROP,SURVEY,POOH, W/BIT #2
	13:30 - 16:00	2.50	DRLPRO	05	A	P		CHANGE BIT,TIH TO SHOE,CIRC BHA
	16:00 - 18:00	2.00	DRLPRO	06	D	P		CUT & SLIP 130' DRLG LINE
	18:00 - 22:00	4.00	DRLPRO	05	A	P		TIH W/BIT #3
	22:00 - 22:30	0.50	DRLPRO	03	D	P		REAM 60' TO BTM,10' FLARE ,3' FILL
	22:30 - 0:00	1.50	DRLPRO	02	B	P		DRILL F/8682' TO 8756,74'AVG49 WT11.9/42SPM110SPP2000-2200,STWT 180-170-164,WOB18,DIFF200,GPM 400
	0:00 - 8:00	8.00	DRLPRO	02	B	P		DRILL F/8756 TO 9125,369' AVG 46,WT 12.0/42,SPM110SPP2000,STWT 180-170-165,WOB20,DIFF 200,GPM400
	8:00 - 9:00	1.00	DRLPRO	04	C	P		CIRCULATE F/SHORTTRIP
2/2/2009	9:00 - 10:00	1.00	EVALPR	05	E	P		SHORTTRIP BACK TO 8100',NO PROBLEMS
	10:00 - 12:00	2.00	EVALPR	04	A	P		CIRC & COND TO LDDP,AND LOG
	12:00 - 21:00	9.00	EVALPR	05	B	P		SAFETY MEET W/TESCO,,R/U-LDDP & BHA,BREAKKELLY ,PULL WEARRING
	21:00 - 0:00	3.00	EVALPR	08	A	P		SAFETY MEET W/HALLIBURTON ,RUN TRIPLE COMBO , LOGGERS DEPTH 9124
	0:00 - 2:30	2.50	EVALPR	08	F	P		RUN TRIPLE COMBO ,LOGGERS DEPTH 9124'
	2:30 - 3:30	1.00	CSG	11	A	P		SAFETY MEET W/TESCO,RIG UP
	3:30 - 10:30	7.00	CSG	11	B	P		RUN 215 JTS & MARKER,9114' 4.5 CSG
	10:30 - 12:00	1.50	CSG	04	E	P		CIRC F/CEMENT ,W/10' FLARE 10MIN

ROCKIES

Operation Summary Report

Well: NBU 1022-5C-4

Spud Conductor: 1/6/2009

Spud Date: 1/7/2009

Project: UTAH

Site: UINTAH

Rig Name No: PROPETRO/, PIONEER 68/68

Event: DRILLING

Start Date: 1/7/2009

End Date: 2/3/2009

Active Datum: RKB @5,206.00ft (above Mean Sea Level)

UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
	12:00 - 16:30	4.50	CSG	15	A	P		(HELD SAFETY MEETING W/ BJ SERVICES) (SWITCH LINES & TEST TO 4500 PSI) (PUMP 20 BBLS MUD CLEAN) (PUMP 214 BBLS LEAD,440 SCKS PREMIUM LITE @ 11.6 PPG,2.73 cF SACK YIELD) (PUMP 280 BBLS,1200 SCKS 50:50 POZ MIX @ 14.3 PPG,1.31cF SACK YIELD) (WASH LINES DROP PLUG & DISPLACE W/ 141 BBLS WATER CLAYTREATED + 1 GL MAGNACIDE @ 8.3 PPG) (LOST RETURNS 70 BBLS IN DISPLACEMENT SLOWED PUMP RATE DOWN TO 2.6 BPM) (GOOD LIFT W/ 2601 PSI PUMPING PSI) (BUMPED PLUG W/ 3100 PSI & PLUG HELD) (500 OVER PSI) (1.5 BBLS BLEED OFF) (FLUSH STACK & EMPTY UPRIGHTS W/ BJ) (RIG DOWN BJ & LAYDOWN LANDING JOINT) (SET MANDREL PACKING ASSEMBLY & TEST TO 5000 PSI)
	16:30 - 21:30	5.00	CSG	13	A	P		NIPPLE DOWN BOP,DROP 20 CHLORINE TABS DOWN CSG,INSTALL NIGHT CAP. CLEAN MUD PITS, EXCESSIVE SOLIDS IN SHALE PIT. (RELEASE RIG @ 21:30 2/3/2009

ROCKIES

Operation Summary Report

Well: NBU 1022-5C-4			Spud Conductor: 1/6/2009			Spud Date: 1/7/2009			
Project: UTAH			Site: UINTAH				Rig Name No: KEY 243/243		
Event: COMPLETION			Start Date: 2/19/2009				End Date: 2/25/2009		
Active Datum: RKB @5,206.00ft (above Mean Sea Level)			UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation	
2/19/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, REVIEW ROADING RIG	
	7:15 - 17:00	9.75	COMP	30	A	P		ROAD RIG FROM NBU 922-32CT TO NBU 1022-5C-4, MIRU, SPOT EQUIP, N/D WELL HEAD, N/U BOPS, P/U 3-7/8 MILL, TALLEY & P/U 190 JNTS 2-3/8 J-55 TBG TAG PBTD @ 9068' CIRC HOLE CLEAN, L/D 34 JNTS ON FLOAT. SWIFN DRAIN EQUIP.	
2/20/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, REVIEW P/U TBG	
	7:15 - 15:00	7.75	COMP	47	B	P		OPEN WELL POOH W/ STNDS 2-3/8 TBG, N/D BOPS, N/U FRAC VALVES, MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 7500# [GOOD TEST] PREP WELL TO FRAC MON. SWI.	
2/23/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, REVIEW WORKING W/ WIRE LINE & FRACING	

ROCKIES

Operation Summary Report

Well: NBU 1022-5C-4

Spud Conductor: 1/6/2009

Spud Date: 1/7/2009

Project: UTAH

Site: UINTAH

Rig Name No: KEY 243/243

Event: COMPLETION

Start Date: 2/19/2009

End Date: 2/25/2009

Active Datum: RKB @5,206.00ft (above Mean Sea Level)

UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36	E	P		MIRU CUTTERS & WEATHERFORD FRAC EQUIP, STG #1] P/U RIH PERF GUN, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 9016'-9020' 4 SPF, 90* PH, 16 HOLES, 8970'-8974' 4 SPF, 90* PH, 16 HOLES, 8935'-8938 3 SPF, 120* PH, 9 HOLES. [41 HOLES] WHP=0#, BRK DN PERFS @ 3196#, INJT PSI=4725#, INJT RT=50.2, ISIP=2624#, FG=.73, PUMP'D 1731.1 BBLS SLK WTR W/ 58050# SAND W/ 4931# RESIN COAT IN TAIL, ISIP=2792#, AR=50.3, AP=4382#, MR=50.5, MP=4858#, NPI=168#, 37/41 CALC PERFS OPEN. STG #2] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8852', PERF MESAVERDE USING 3-4/8 EXPEND, 23 GRM, 0.36" HOLE, 8819'-8822' 4 SPF, 90* PH, 12 HOLES, 8762'-8765' 3 SPF, 120* PH, 9 HOLES, 8732'-8734' 3 SPF, 120* PH, 6 HOLES, 8706'-8711' 3 SPF, 120* PH, 15 HOLES, [42 HOLES] WHP=0#, BRK DN PERFS @ 2687#, INJT PSI=5128#, INJT RT=50.2, ISIP=2096#, FG=.68, PUMP'D 4634.3 BBLS SLK WTR W/ 173729# SAND W/ 5023# RESIN COAT IN TAIL, ISIP=2855#, FG=.77, AR=53.5, AP=5055#, MR=54.4, MP=6019#, NPI=759#, 27/42 CALC PERFS OPEN. STG #3] P/U RIH W/ BKR 8K CBP & PERF GUN. SET CBP @ 8676', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36", 3 SPF, 120* PH, 8641'-8646' 15 HOLES, 8611'-8616' 15 HOLES, 8544'-8548' 12 HOLES [42 HOLES] WHP=0#, BRK DN PERFS @ 2785#, INJT PSI=4914#, INJT RT=49.2, ISIP=#, FG=.72, PUMP'D 3318.3 BBLS SLK WTR W/ 128385# SAND W/ 5211# RESIN COAT IN TAIL. ISIP=3076#, FG=.80, AR=49.3, AP=4594#, MR=49.8, MP=5485#, NPI=665# 34/42 CALC PERFS OPEN. STG #4] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8504', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 8472'-8474' 4 SPF, 90* PH, 8 HOLES, 8454'-8458' 3 SPF, 120* PH, 12 HOLES, 8418'-8422' 3 SPF, 120* PH, 12 HOLES, 8314'-8317 3 SPF, 120* PH, 9 HOLES, [41 HOLES] WHP=2520#, BRK DN PERFS @ 4788#, INJT PSI=5820#, INJT RT=51.2, ISIP=2909#, FG=.79, PUMP'D 1662 BBLS SLK WTR W/ 63805# SAND W/ 4873# RESIN COAT IN TAIL, ISIP=2777#, FG=.77, AR=51.6, AP=4954#, MR=51.9, MP=6138#, NPI=-132# 28/41 CALC PERFS OPEN. STG #5] P/U RIH W/ BKR 8K CBP & PERF GUN. SET CBP @ 8240', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 8207'-8210 4 SPF, 90* PH, 12 HOLES, 8160'-8163' 3 SPF, 120* PH, 9 HOLES, 8116'-8118' 3 SPF, 120* PH, 6 HOLES, 8029'-8034' 3 SPF, 120* PH, 15 HOLES,

ROCKIES

Operation Summary Report

Well: NBU 1022-5C-4

Spud Conductor: 1/6/2009

Spud Date: 1/7/2009

Project: UTAH

Site: UINTAH

Rig Name No: KEY 243/243

Event: COMPLETION

Start Date: 2/19/2009

End Date: 2/25/2009

Active Datum: RKB @5,206.00ft (above Mean Sea Level)

UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
								[42 HOLES] WHP=145#, BRK DN FERFS @ 3035#, INJT PSI=3820#, INJT RT=50, ISIP=2007# FG=.69, PUMP'D 1980.6 BBLS SLK WTR W/ 72147# SAND W/ 5217# RESIN COAT IN TAIL, ISIP=2082#, FG=.70, AR=49.9, AP=3855#, MR=51.1, MP=3860#, NPI=77#, 42/42 CALC PERFS OPEN. STG #6] P/U RIH W/ BKR 8K CBP & PERF GUN. SET CBP @ 7854, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 7822'-7824' 4 SPF, 90° PH, 8 HOLES, 7735'-7738' 4 SPF, 90° PH, 12 HOLES, 7699'-7703' 3 SPF 120° PH, 12 HOLES, 7598'-7602' 3 SPF, 120° PH, 12 HOLES, [44 HOLES] PICKLE WELL, SWIFN. HSM. TRIPPING IN HOLE 2/24/2009 7:00 - 7:15 0.25 COMP 48 P 7:15 - 17:00 9.75 COMP 36 E P OPEN WELL FRAC STG #6] IN MESAVERDE 7598'-7824' [44 HOLES] WHP=1225#, BRK DN PERFS @ 2990#, INJT PSI=4300#, INJT RT=50.3, ISIP=2338#, FG=.74, PUMP'D 2202.2 BBLS SLK WTR W/ 81323# SAND W/ 3742# RESIN COAT IN TAIL, ISIP=2529#, FG=.77, AR=50.3, AP=3976#, MR=50.7, MP=5998#, NPI=191#, 42/44 CALC PERFS OPEN. STG #7] P/U RIH W/ BKR 8K CBP & PERF GUN. SET CBP @ 7528', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 7822'-7824' 4 SPF, 90° PH, 8 HOLES, 7735'-7738' 4 SPF, 90° PH, 12 HOLES, 7699'-7703' 3 SPF, 120° PH, 12 HOLES, 7598'-7602' 3 SPF, 120° PH, 12 HOLES, [44 HOLES] WHP=0#, BRK DN PERFS @ 3650#, INNJT PSI=3938#, INJT RT=50, ISIP=1566#, FG=.65, PUMP'D 1329 BBLS SLK WTR W/ 47648# SAND W/ 3122# RESIN COAT IN TAIL, ISIP=1916#, FG=.70, AR=50.2, AP=3761#, MR=50.8, MP=4776#, NPI=350#, 36/44 CALC PERFS OPEN. P/U RIH W/ BKR 8K CBP & SET @ 7200', POOH, R/D CUTTERS & WEATHERFORD FRAC EQUIP, N/D FRAC VALVES, N/U BOPS, R/U TBG EQUIP, P/U 3-7/8 BIT W/ POBS PKG, RIH W/ 2-3/8 J-55 TBG, TAG KILL PLUG @ 7200' P/U PWR SWVL PREP TO DRL IN A.M. SWIFN. 2/25/2009 7:00 - 7:15 0.25 COMP 48 P HSM, DRL PLUGS

ROCKIES

Operation Summary Report

Well: NBU 1022-5C-4

Spud Conductor: 1/6/2009

Spud Date: 1/7/2009

Project: UTAH

Site: UINTAH

Rig Name No: KEY 243/243

Event: COMPLETION

Start Date: 2/19/2009

End Date: 2/25/2009

Active Datum: RKB @5,206.00ft (above Mean Sea Level)

UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	44	C	P		<p>OPEN WELL, 0# C SICP, 0# SITP, EST CIRC W/ RIG PUMP.</p> <p>PLUG #1] TAG PLUG @ 7200' DRL THROUGH BKR 8K CBP IN 10 MIN, 300# INCREASE.</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 74987' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 7527' IN 10 MIN. 600# INCREASE.</p> <p>PLUG #3] CONTINUE TO RIH TAG SAND @ 7824' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 7854' IN 10 MIN. W/ 600# INCREASE.</p> <p>PLUG #4] CONTINUE TO RIH, TAG SAND @ 8230' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8240' IN 10 MIN. W/ 200# INCREASE.</p> <p>PLUG #5] CONTINUE TO RIH, TAG SAND @ 8530' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8540' IN 10 MIN. W/ 500# INCREASE.</p> <p>PLUG #6] CONTINUE TO RIH, TAG SAND @ 8646' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8676' IN 10 MIN. W/ 400# INCREASE.</p> <p>PLUG #7] CONTINUE TO RIH, TAG SAND @ 8840' [12' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8852' IN 10 MIN. W/ 200# INCREASE.</p> <p>CONTINUE TO RIH C/O TO PBTD @ 9068' CIRC HOLE, R/D PWR SWVL. L/D 27 JNTS ON FLOAT P/U 4-1/16 HANGER LAND W/ 276 JNTS 2-3/8 J-55 TBG @ 8664.47 , R/D TBG EQUIP, N/D BOPS, N/U WELL HEAD, DROP BALL, PUMP OFF BIT W/ 2300#, LEAVE WELL SUT IN FOR 30 MIN. OPEN WELL UP TO PIT TURN OVER TO F/B CREW. RDMO.</p>
2/26/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3300#, TP 2600#, 20/64" CK, 75 BWPH, 3/4 CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 3473</p> <p>TTL BBLS LEFT TO RECOVER: 13385</p>
2/27/2009	7:00 -		PROD	33	A			7 AM FLBK REPORT: CP 3700#, TP 2600#, 20/64" CK, 48 BWPH, - CUP SAND, - GAS
	7:00 -			33	A			TTL BBLS RECOVERED 4787
								TTL BBLS LEFT TO RECOVER: 12071
	9:00 -		PROD					WELL TURNED TO SALES @ 0900 HR ON
								2/27/2009 - FTP 3200#, CP 3700#, CK 20/64", 3000 MCFD, 1152 BWPD
2/28/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3600#, TP 2650#, 20/64" CK, 27 BWPH, - SAND, - GAS
								TTL BBLS RECOVERED: 5636
								TTL BBLS LEFT TO RECOVER: 11222
3/1/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3400#, TP 2550#, 20/64" CK, 20 BWPH, CLEAN SAND, - GAS
								TTL BBLS RECOVERED: 6160
								TTL BBLS LEFT TO RECOVER: 10698

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU01195

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No. UNIT #891008900A	
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		8. Lease Name and Well No. NBU 1022-5C-4	
3. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		9. API Well No. 43-047-38522	
3a. Phone No. (include area code) Ph: 435-781-7024		10. Field and Pool, or Exploratory NATURAL BUTTES	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENW Lot 3 1269FNL 2606FWL At top prod interval reported below NENW Lot 3 1269FNL 2606FWL At total depth NENW Lot 3 1269FNL 2606FWL		11. Sec., T., R., M., or Block and Survey or Area Sec 5 T10S R22E Mer SLB	
14. Date Spudded 01/06/2009		15. Date T.D. Reached 02/02/2009	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 02/27/2009		17. Elevations (DF, KB, RT, GL)* 5188 GL	
18. Total Depth: MD TVD 9125		19. Plug Back T.D.: MD TVD 9068	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL-CCL-GR SD, DSN, ACTR	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	10.000 J-55	36.0		2430		750			
7.875	4.500 I-80	11.6		9125		1640			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8664							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	7250	9020	7250 TO 9020	0.360	296	OPEN
B) WSMVD						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7250 TO 9020	PMP 16,858 BBLs SLICK H2O & 591,414# 30/50 OTTOWA SD

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/27/2009	03/03/2009	24	→	1.0	2715.0	600.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
16/64	366	3421.0	→	1	2715	600		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #68924 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

DIV. OF OIL, GAS & MINING

RECEIVED

APR 20 2009

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1311				
BIRDS NEST	1635				
MAHOGANY	2132				
WASATCH	4547	7018			
MESAVERDE	7118	9049			

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #68924 Verified by the BLM Well Information System.
For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (please print) SHEILA UPCHEGO

Title OPERATIONS

Signature

(Electronic Submission)

Date 04/15/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01195
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-5C-4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1269 FNL 2606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 05 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047385220000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/9/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedures for the proposed repair work on the subject well location.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 03/10/2011

By:

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 3/9/2011

WORKORDER #: 88122151

Name: NBU 1022-5C-4
Surface Location: NENW SEC.5 T10S, R22E
Uintah County, UT

3/4/11

API: 4304738522 **LEASE#:** UTU-01195

ELEVATIONS: 5188' GL 5206' KB

TOTAL DEPTH: 9125' **PBTD:** 9068'

SURFACE CASING: 9 5/8", 36# J-55 @ 2430'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 9125'
T.O.C.@ 700 per CBL

PERFORATIONS: Mesaverde 7250' – 9020'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02173	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.01554
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01006

GEOLOGICAL TOPS:

1311' Green River
1635' Bird's Nest
2132' Mahogany
4547' Wasatch
7118' Mesaverde

NBU 1022-5C-4 – WELLHEAD REPLACEMENT PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. Pooh w/ tubing.
5. Rig up wireline service. RIH and set CBP @ ~7200'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service.
6. Remove BOP and ND WH.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 1 joint of 3 ½" IF drill pipe with 4 ½" right hand standard grapple overshot. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to +/- 7000 ft-lbs, count number of turns to make-up, and document in the daily report. Release overshot, POOH, and lay down.
4. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" I-80 or P-110 casing.
5. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
6. Install C-22 slips. Land casing w/ 80,000# tension.
7. Cut-off and dress 4 ½" casing stub.
8. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7150'. Clean out to PBTD (9068').
9. POOH, land tbg and pump off POBS.
10. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.
4. MIRU wireline services. RIH and shoot string shot at casing collar @ 46'.
5. MIRU casing crew.
6. Back-off casing, POOH.
7. PU new casing joint w/ entry guide and RIH. Tag casing top. Thread into casing and torque up to +/- 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report.
8. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
9. Install C-22 slips. Land casing w/ 80,000# tension.

10. Cut-off and dress 4 ½" casing stub.
11. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7150'. Clean out to PBTD (9068').
12. POOH, land tbg and pump off POBS.
13. NUWH, RDMO. Turn well over to production ops.



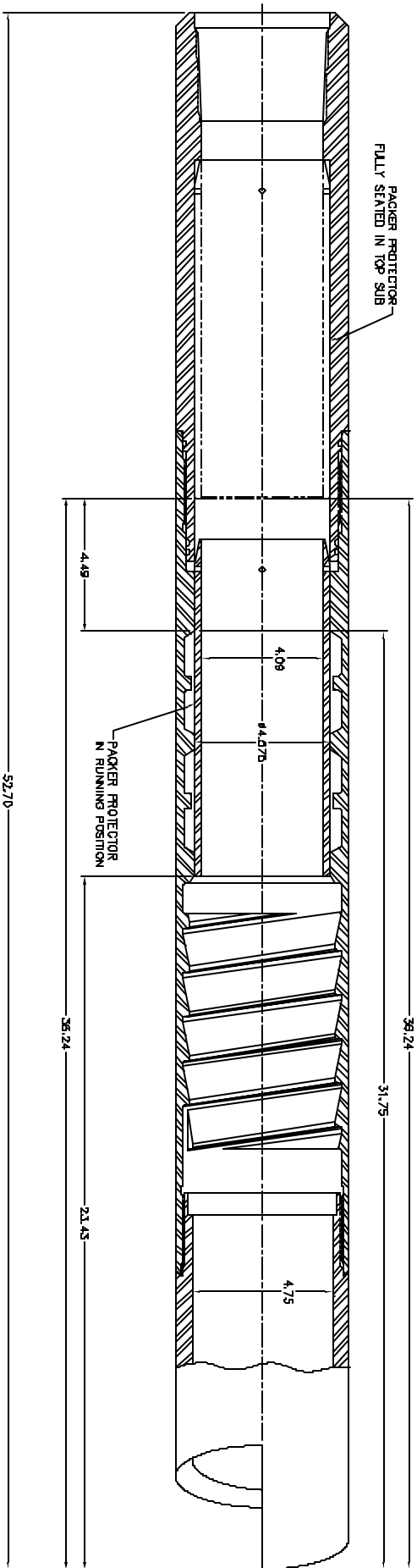
Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

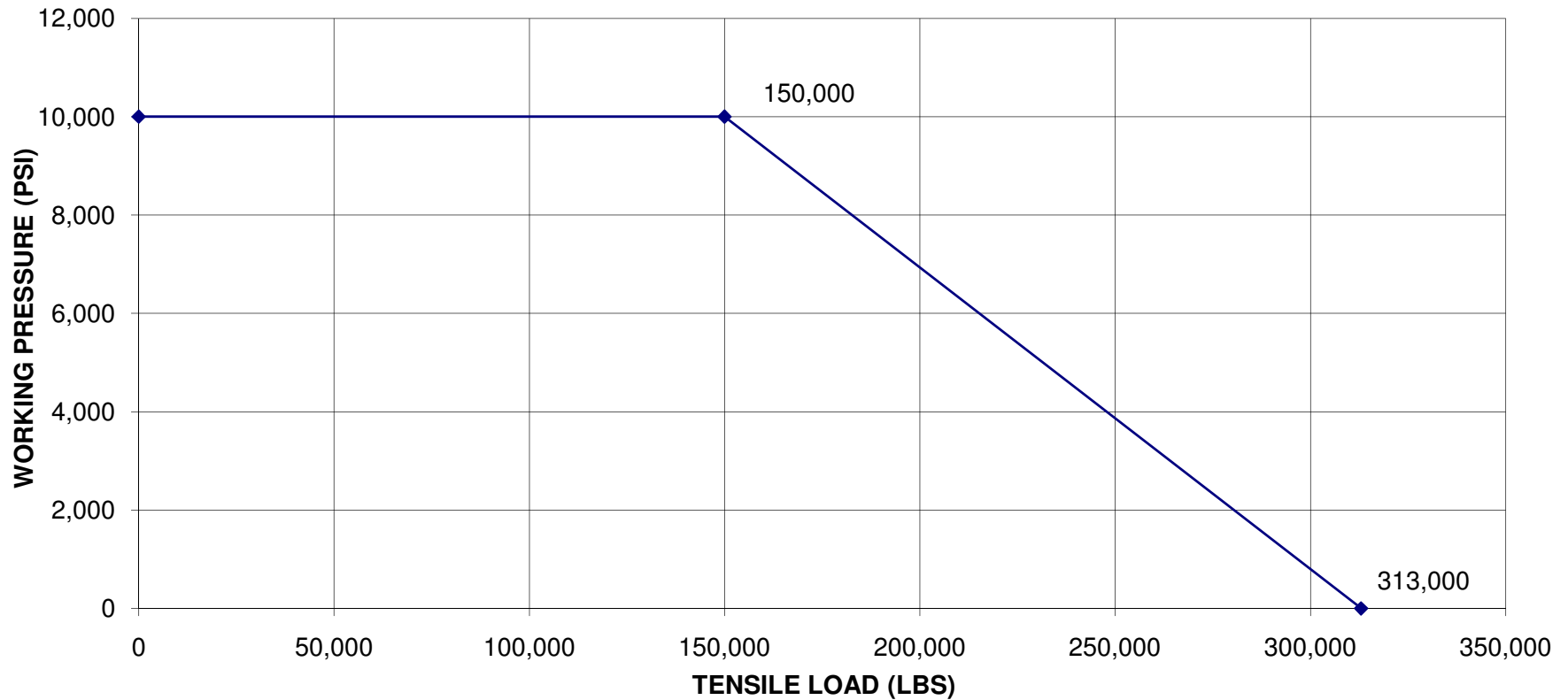
1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

510L-005-001 4-1/2" LOGAN HP CASING PATCH



**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01195			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 1022-5C-4			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047385220000			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1269 FNL 2606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 05 Township: 10.0S Range: 22.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/18/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests authorization to temporarily abandon the subject well location. The operator proposes to temporarily abandon the subject well to drill the NBU 1022-5C PAD; which consists of the following wells: NBU 1022-5C1BS, NBU 1022-5C1DS, NBU 1022-5C4BS, NBU 1022-5F1CS, NBU 1022-5F4BS.					
<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining Date: June 20, 2013 By: <u>Derek Quist</u> </div>					
NAME (PLEASE PRINT) Luke Urban		PHONE NUMBER 720 929-6501			
SIGNATURE N/A		TITLE Regulatory Specialist DATE 6/18/2013			

Well Name: **NBU 1022-5C-4**
 Surface Location: NESWNW Sec. 5, T10, R22E
 Uintah County, UT

6/12/13

Recommended action for disposition of well bore:

This well will be temporarily abandoned to accommodate drilling operations in one of 2 ways. We will either plug the wellbore as outlined in the attached procedure or Shut-In in the following manner: a) Set a tubing plug near EOT, install a flange over the tbg hanger, removal of master valve, set VR plugs in casing head at surface, and removal of casing wing valves, replaced with blind flanges.

API: 4304738522 LEASE#: UTU-01195

ELEVATIONS: 5188' GL 5206' KB

TOTAL DEPTH: 9125' PBD: 9068'

SURFACE CASING: 9 5/8"*, 36# J-55 @ 2430' (KB)
 *BLM Completion report incorrectly states 10" Surface Csg

PRODUCTION CASING: 4 1/2", 11.6# I-80 @ 9125'
 TOC @ ~700 per CBL

PRODUCTION TUBING: 2 3/8" J-55, EOT @ 8683' (WOV rpt dated 4/3/12)

PERFORATIONS: MESAVERDE 7250' - 9020'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft./ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.765	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01
4.5" csg X 9 5/8" 36# csg				2.227	0.2977	0.053
4.5" csg X 7.875 borehole				1.704	0.2278	0.0406
9.625" csg X 12 1/4" borehole				2.3428	0.3132	0.0558

GEOLOGICAL TOPS:

4547' Wasatch
 7118' Mesaverde

NBU 1022-5C-4 TEMPORARY ABANDONMENT PROCEDURE

GENERAL

- H₂S MAY BE PRESENT. CHECK FOR H₂S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY BLM/UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

PROCEDURE

Note: An estimated 26 sx of cement needed to perform procedure.

1. MIRU. KILL WELL AS NEEDED (TO INCLUDE SURFACE CSG PRESSURE). ND WH, NU AND TEST BOPE.
2. RU WIRELINE. ENSURE WELLBORE IS CLEAN. **A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.**
3. RUN GYRO SURVEY.
4. **PLUG #1, ISOLATE MV/WAS PERFORATIONS (7250' - 9020'):** RIH W/ 4 ½" CBP. SET @ ~7200'. RELEASE CBP, PUH 10', BRK CIRC W/ FRESH WATER. PRESSURE TEST CASING TO 500 PSI. INFORM ENGINEERING IF IT DOESN'T TEST. DISPLACE A MINIMUM OF **8 SX/ 1.6 BBL/ 8.7 CUFT**. ON TOP OF PLUG. PUH ABOVE TOC (~7100'). REVERSE CIRCULATE W/ TREATED FRESH WATER (~36 BBLS).
5. **PLUG #2, PROTECT TOP OF WASATCH (4547'):** PUH TO ~4660'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **18 SX / 3.6 BBL / 20.1 CUFT** AND BALANCE PLUG W/ TOC @ ~4430' (230' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER (~69 BBLS).
6. LOWER WELLHEAD TO GROUND LEVEL TO ACCOMMODATE DRILLING OPS AND INSTALL MARKER PER UDOGM GUIDELINES.
7. RDMO. TURN OVER TO DRILLING OPERATIONS.

ALM 6/12/13

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01195
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-5C-4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1269 FNL 2606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 05 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047385220000
PHONE NUMBER: 720 929-6100		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/30/2013	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator has concluded the temporary abandonment operations on the subject well location on 12/30/2013. This well was plugged in order to expand and drill the NBU 1022-5C Pad wells. Please see the attached chronological well history for details. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 13, 2014		
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 2/12/2014	

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-5C-4			Spud Conductor: 1/6/2009			Spud Date: 1/7/2009		
Project: UTAH-UINTAH			Site: NBU 1022-5C-4				Rig Name No: SWABBCO 6/6	
Event: ABANDONMENT			Start Date: 9/30/2013				End Date: 12/30/2013	
Active Datum: RKB @5,206.00usft (above Mean Sea Level)			UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/26/2013	7:00 - 7:30	0.50	ABANDT	48		P		ROADING RIG
	7:30 - 18:02	10.53	ABANDT	45	A	P		ROAD RIG FROM NBU 12-28B TO LOC, RU, CALLED FOR WTR 10:30 AM, WTR ARRIVED AT 4:30 -M, TRK FROZE UP, COULDN'T UNLOAD, SWIFN
12/27/2013	7:00 - 7:30	0.50	ABANDT	46		P		SCAN TBG
	7:30 - 16:00	8.50	ABANDT	45	A	P		KILL WELL,NDWH, NU BOP'S, TEST BOP'S, RU SCAN TECH, UNLAND TBG, SCAN TBG OOH,STD BACK 113 STDS, LAY BALANCE ON TLR, RU CUTTERS, TIH GAUGE RING 7220', POOH PU 8 K CBP, TIH SET AT 7200', POOH, TIH 113 STDS TBG, TAG 8K CBP, BREAK CIRC,TEST CSG TO 500#,SWIFWE
12/30/2013	7:00 - 7:30	0.50	ABANDT	48		P		TRIPPING TBG
	7:30 - 17:00	9.50	ABANDT	31	I	P		BREAK CIRC, TEST CSG TO 500#, RU PRO PETRO, SET 2 CEMENT PLUGS, LAY DWN TBG ON TLR, CALL FMC, REMOVE WH, RDMO PLUG# 1 8K CB 7200' SET 10SX, 2 BBLS, CEMENT ON CBP, DISLPACE WITH 1 BBL FRESH, 26 BBLS TREATED T-MAC PLUG# 2 4660' CEMENT PUMP 2.5 BBLS FRESH, 20 SX, 4.1 BBLS CEMENT, DISPLACE WITH 1 BBL FRESH, 15.9 BBLS TREATED T-MAC,ALL CEMENT USED IS CLASS G, YIELD 1.145, DENISTY 15.8#/GAL.
12/31/2013	7:00 -							GRYO RAN AUG 16TH, 2009 N 39.98179W 109.46315 ELEV 5206' REMOVE PRODUCTION FACILITIES TO PREPARE LOCATION FOR PAD DRILLING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01195			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-5C-4			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1269 FNL 2606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 05 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047385220000			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/22/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 70%;"> <p>The operator requests authorization to conduct recompletion operations on the referenced well. Please see the attached recompletion procedure. This is a State courtesy copy for the referenced Federal Well.</p> <p style="text-align: center;">Thank you.</p> </div> <div style="width: 25%; text-align: right;"> <p>Accepted by the Utah Division of Oil, Gas and Mining June 05, 2014</p> <p>Date: _____</p> <p>By: <u>Derek Quist</u></p> </div> </div>					
NAME (PLEASE PRINT) Matthew P Wold		PHONE NUMBER 720 929-6993			
SIGNATURE N/A		TITLE Regulatory Analyst I			
DATE 5/22/2014					



Greater Natural Buttes Unit

NBU 1022-5C-4
RE-COMPLETION PROCEDURE
NBU 1022-5C PAD
FIELD ID: RED WELL

DATE: 5/20/2014
AFE#: 2024578
API#: 4304738522
USER ID: JVV274 (Frac Invoices Only)

COMPLETIONS ENGINEER: Ben Smiley, Denver, CO
(720) 929-6060 (Office)
(936) 524-4231 (Cell)

REMEMBER SAFETY FIRST!

Name: **NBU 1022-5C-4****Location:** **SE NE NW Section 5 T10S R22E****LAT:** 39.981766 **LONG:** -109.463945 **COORDINATE:** NAD83 (*Surface Location*)**Uintah County, UT****ELEVATIONS:** 5,188' GL 5,206' KB *Frac Registry TVD: 9,122'***TOTAL DEPTH:** 9,125'**PBTD:** 9,069'**SURFACE CASING:**

9 5/8", 36# J-55 LTC @ 2,397'

PRODUCTION CASING:

4 1/2", 11.6#, I-80 LTC @ 9,113'

Marker Joint **4,484-4,501'****TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal./ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1,311' Green River Top

1,637' Bird's Nest Top

2,132' Mahogany Top

4,547' Wasatch Top

7,118' Mesaverde Top

*Based on latest geological interpretation

BOTTOMS:

7,118' Wasatch Bottom

9,125' Mesaverde Bottom (TD)

T.O.C. @ 4650'

**Based on latest interpretation of CBL

GENERAL NOTES:

- **Please note that:**
 - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
 - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **17** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Cutter's GRlog dated **2/10/2008**.
- **6** fracturing stages required for coverage.
- Hydraulic isolation estimated at **4682** based upon Cutter's CBL dated 2/10/2008.
- Procedure calls for **7** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**

- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Mesaverde 1 ppg; Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing – design will over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 1 - 2, & 4.**

Existing Perforations:

<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>
MESA VERDE	7250	7252	3	6	02/23/2009	PRODUCTION
MESA VERDE	7293	7296	3	9	02/23/2009	PRODUCTION
MESA VERDE	7410	7413	3	9	02/23/2009	PRODUCTION
MESA VERDE	7492	7497	4	20	02/23/2009	PRODUCTION
MESA VERDE	7598	7602	3	12	02/23/2009	PRODUCTION
MESA VERDE	7699	7703	3	12	02/23/2009	PRODUCTION
MESA VERDE	7735	7738	4	12	02/23/2009	PRODUCTION
MESA VERDE	7822	7824	4	8	02/23/2009	PRODUCTION
MESA VERDE	8029	8034	3	15	02/23/2009	PRODUCTION
MESA VERDE	8116	8118	3	6	02/23/2009	PRODUCTION
MESA VERDE	8160	8163	3	9	02/23/2009	PRODUCTION
MESA VERDE	8207	8210	4	12		PRODUCTION
MESA VERDE	8314	8317	3	9	02/23/2009	PRODUCTION
MESA VERDE	8418	8422	3	12	02/23/2009	PRODUCTION
MESA VERDE	8454	8458	3	12	02/23/2009	PRODUCTION
MESA VERDE	8472	8474	4	8	02/23/2009	PRODUCTION
MESA VERDE	8544	8548	3	12	02/23/2009	PRODUCTION
MESA VERDE	8611	8616	3	15	02/23/2009	PRODUCTION
MESA VERDE	8641	8646	3	15	02/23/2009	PRODUCTION
MESA VERDE	8706	8711	3	15	02/23/2009	PRODUCTION
MESA VERDE	8732	8734	3	6	02/23/2009	PRODUCTION
MESA VERDE	8762	8765	3	9	02/23/2009	PRODUCTION
MESA VERDE	8819	8822	4	12		PRODUCTION
MESA VERDE	8935	8938	3	9	02/23/2009	PRODUCTION
MESA VERDE	8970	8974	4	16	02/23/2009	PRODUCTION
MESA VERDE	9016	9020	4	16	02/23/2009	PRODUCTION

Relevant History:

2/24/2009: Originally completed in Mesaverde formation (7 stages) with ~ 691,162 gallons of Slickwater, 604,320 lbs of 30/50 Ottawa Sand sand and 35,080 lbs of 20/40 Resin coated sand.

12/30/2013: Well TA'd. Cement Plug(s) @ 7200' and 4660'

H2S History:

Location Name	WINS No. (wel...	Production Date	Gas (avg mcfi...	Water (avg bb...	Oil (avg bbl/day)	Avg. BOE/day	LGR (bbl/Mmcft)	Max H2S Sep.	Separator H2.	Tank H2S (lbs)	Production Year
NBU 1022-5C-4	95336	1/31/2010	1020.74	27.23	3.68	173.80	30.28				2010
NBU 1022-5C-4	95336	2/28/2010	936.68	26.96	3.64	159.76	32.68	0.00	0.00	0.00	2010
NBU 1022-5C-4	95336	3/31/2010	934.26	23.29	2.26	157.97	27.35	5.00	0.42	0.00	2010
NBU 1022-5C-4	95336	4/30/2010	790.87	8.10	1.47	133.28	12.10				2010
NBU 1022-5C-4	95336	5/31/2010	895.32	42.19	2.10	151.32	49.47				2010
NBU 1022-5C-4	95336	6/30/2010	824.07	21.00	1.83	139.18	27.71				2010
NBU 1022-5C-4	95336	7/31/2010	810.68	22.74	0.97	136.08	29.25				2010
NBU 1022-5C-4	95336	8/31/2010	826.81	32.32	2.71	140.51	42.37				2010
NBU 1022-5C-4	95336	9/30/2010	756.43	21.07	1.23	127.64	29.40				2010
NBU 1022-5C-4	95336	10/31/2010	704.65	23.23	1.74	119.18	35.43				2010
NBU 1022-5C-4	95336	11/30/2010	696.83	17.83	2.07	118.21	26.56				2010
NBU 1022-5C-4	95336	12/31/2010	664.19	16.52	2.06	112.76	27.97				2010
NBU 1022-5C-4	95336	1/31/2011	578.42	11.32	1.35	97.76	21.52	0.00	0.00	0.00	2011
NBU 1022-5C-4	95336	2/28/2011	597.82	14.04	2.29	101.92	27.30				2011
NBU 1022-5C-4	95336	3/31/2011	542.97	11.58	1.77	92.27	24.60				2011
NBU 1022-5C-4	95336	4/30/2011	483.60	5.97	1.60	82.20	15.65	2.00	0.09	0.00	2011
NBU 1022-5C-4	95336	5/31/2011	723.94	49.81	3.19	123.85	73.21				2011
NBU 1022-5C-4	95336	6/30/2011	635.07	23.93	0.80	106.64	38.95				2011
NBU 1022-5C-4	95336	7/31/2011	612.39	23.48	2.23	104.29	41.98				2011
NBU 1022-5C-4	95336	8/31/2011	585.90	23.77	1.10	98.75	42.45				2011
NBU 1022-5C-4	95336	9/30/2011	555.57	16.90	0.07	92.66	30.54				2011
NBU 1022-5C-4	95336	10/31/2011	530.68	16.00	0.71	89.16	31.49				2011
NBU 1022-5C-4	95336	11/30/2011	519.83	16.23	0.57	87.21	32.32				2011
NBU 1022-5C-4	95336	12/31/2011	505.90	11.61	0.71	85.03	24.36	0.00	0.00	0.00	2011
NBU 1022-5C-4	95336	1/31/2012	485.77	13.03	0.19	81.16	27.23	0.00	0.00	0.00	2012
NBU 1022-5C-4	95336	2/28/2012	452.69	13.00	0.55	76.00	29.94	0.00	0.00	0.00	2012
NBU 1022-5C-4	95336	3/31/2012	293.81	8.32	0.26	49.23	29.21				2012
NBU 1022-5C-4	95336	4/30/2012	703.83	70.83	1.87	119.17	103.29	29.00	1.83	0.00	2012
NBU 1022-5C-4	95336	5/31/2012	646.55	28.81	1.48	109.24	46.85	8.00	0.46	0.00	2012
NBU 1022-5C-4	95336	6/30/2012	604.33	24.27	0.43	101.16	40.87				2012
NBU 1022-5C-4	95336	7/31/2012	576.87	15.26	0.81	96.95	27.85				2012
NBU 1022-5C-4	95336	8/31/2012	557.52	21.42	0.77	93.69	39.81				2012
NBU 1022-5C-4	95336	9/30/2012	542.60	15.03	0.70	91.13	29.00	8.00	0.39	0.00	2012
NBU 1022-5C-4	95336	10/31/2012	534.97	14.71	0.77	89.94	28.94				2012
NBU 1022-5C-4	95336	11/30/2012	518.80	16.43	0.37	86.83	32.38				2012
NBU 1022-5C-4	95336	12/31/2012	508.03	12.16	0.45	85.12	24.83				2012
NBU 1022-5C-4	95336	1/31/2013	499.55	17.16	0.61	83.87	35.58	0.00	0.00	0.00	2013
NBU 1022-5C-4	95336	2/28/2013	480.14	15.86	0.21	80.24	33.47				2013
NBU 1022-5C-4	95336	3/31/2013	433.19	9.13	0.23	72.42	21.60				2013
NBU 1022-5C-4	95336	4/30/2013	489.43	15.13	0.20	81.77	31.33				2013
NBU 1022-5C-4	95336	5/31/2013	418.00	15.74	0.42	70.09	38.66				2013
NBU 1022-5C-4	95336	6/30/2013	472.50	12.87	0.07	78.82	27.37				2013
NBU 1022-5C-4	95336	7/31/2013	498.16	22.52	0.35	83.38	45.91				2013
NBU 1022-5C-4	95336	8/31/2013	480.35	15.52	0.32	80.38	32.97				2013
NBU 1022-5C-4	95336	9/30/2013	467.60	15.10	0.40	78.33	33.15				2013
NBU 1022-5C-4	95336	10/31/2013	446.61	12.23	0.00	74.44	27.37				2013
NBU 1022-5C-4	95336	11/30/2013	454.27	17.93	0.30	76.01	40.14				2013
NBU 1022-5C-4	95336	12/31/2013	259.32	5.71	0.16	43.38	22.64	0.00	0.00	0.00	2013
NBU 1022-5C-4	95336	1/31/2014	0.00	0.00	0.00	0.00					2014
NBU 1022-5C-4	95336	2/28/2014	0.00	0.00	0.00	0.00					2014

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. ND WH, NU BOP's and test.
2. P/U 2 & 3/8" tbg and a mill and C/O CBP @ 4660' and 7200'. Continue to cleanout to 7300' (70' below proposed CBP depth). Circulate well clean and POOH.
3. Set 8000 psi CBP at ~ 7230'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve.** Flow from annulus will be visually monitored

throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

4. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.

5. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6976	6977	3	3
MESAVERDE	6994	6995	3	3
MESAVERDE	7201	7206	3	15

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6976' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

7. Set 8000 psi CBP at ~6951'. Perf the following 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6724	6725	3	3
WASATCH	6794	6795	3	3
WASATCH	6842	6843	3	3
WASATCH	6877	6878	3	3
WASATCH	6896	6898	3	6
WASATCH	6926	6928	3	6

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6724' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

9. Set 8000 psi CBP at ~6691'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6458	6459	3	3
WASATCH	6477	6478	3	3
WASATCH	6516	6518	3	6
WASATCH	6556	6557	3	3
WASATCH	6564	6565	3	3
WASATCH	6659	6661	3	6

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6458' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~6374'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6123	6124	3	3
WASATCH	6187	6188	3	3
WASATCH	6220	6221	3	3
WASATCH	6240	6241	3	3
WASATCH	6299	6300	3	3
WASATCH	6312	6313	3	3
WASATCH	6332	6333	3	3
WASATCH	6343	6344	3	3

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6123' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

13. Set 8000 psi CBP at ~6090'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5905	5906	3	3
WASATCH	5920	5921	3	3
WASATCH	5951	5952	3	3
WASATCH	5963	5964	3	3
WASATCH	5978	5979	3	3
WASATCH	6057	6060	3	9

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5905' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

15. Set 8000 psi CBP at ~5851'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5650	5654	4	16
WASATCH	5827	5829	4	8

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~5650' and flush only with recycled water.

17. Set 8000 psi CBP at ~5595'.

18. ND Frac Valves, NU and Test BOPs.

19. TIH with 3 7/8" bit, pump open sub, SN and tubing.

20. Drill 6 plugs and clean out to a depth of 7220' (~ 14' below bottom perfs).

21. Shift pump open bit sub and land tubing at 6634'. Flow back completion load. RDMO.

22. MIRU, POOH tbg and POBS. TIH with POBS.

23. Drill last plug @ 7230' clean out to PBTd at 9069'. Shear off bit and land tubing at ± '.
This well WILL be commingled at this time. NOTE: If the CBP between the initial completion and the recompleted sands has been in the well for more than 30 calendar days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.

24. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

25. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Ben Smiley: 936/524-4231, 720/929-6060

Production Engineer

Mickey Doherty: 406/491-7294, 435/781-9740

Ronald Trigo: 352/213-6630, 435/781-7037

Brad Laney: 435/781-7031, 435/828-5469

Boone Bajgier: 435/781/7096, 713/416/4816

Heath Pottmeyer: 740/525-3445, 435/781-9789

Anqi Yang: 435/828-6505, 435/781-7015

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Acid Pickling and H2S Procedures (If Required)****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Service Company Supplied Chemicals - Job Totals

Friction Reducer	88	gals @	0.3	GPT
Surfactant	294	gals @	1.0	GPT
Clay Stabilizer	0	gals @	0.0	GPT
15% Hcl	1500	gals @	250	gal/stg
Iron Control for acid	8	gals @	5.0	GPT of acid
Surfactant for acid	3	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	9	gals @	6.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	147	gals pumped	0.5	GPT (see schedule)
Biocide	88	gals @	0.3	GPT

Enter Number of swabbing days here for re-completes
Enter 1 if running a Production Log
Enter Number of DFITs
Enter Y if only Gamma Ray log was run
Enter Y if a LOW concentration of Scale Inhibitor will be pumped
Enter N if there will be NO Clay stabilizer

[illegible]

10

NBU 1022-5C4

Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	6976	6977	3	3	6976	to	7230.5
	MESAVERDE	6994	6995	3	3			
	MESAVERDE	7201	7206	3	15			
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	MESAVERDE							
	# of Perfs/stage				21	CBP DEPTH	6,951	
2	WASATCH	6724	6725	3	3	6724	to	6935
	WASATCH	6794	6795	3	3			
	WASATCH	6842	6843	3	3			
	WASATCH	6877	6878	3	3			
	WASATCH	6896	6898	3	6			
	WASATCH	6926	6928	3	6			
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,691	
3	WASATCH	6458	6459	3	3	6458	to	6670
	WASATCH	6477	6478	3	3			
	WASATCH	6516	6518	3	6			
	WASATCH	6556	6557	3	3			
	WASATCH	6564	6565	3	3			
	WASATCH	6659	6661	3	6			
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,374	
4	WASATCH	6123	6124	3	3	6123	to	6355
	WASATCH	6187	6188	3	3			
	WASATCH	6220	6221	3	3			
	WASATCH	6240	6241	3	3			
	WASATCH	6299	6300	3	3			
	WASATCH	6312	6313	3	3			
	WASATCH	6332	6333	3	3			
	WASATCH	6343	6344	3	3			
	# of Perfs/stage				24	CBP DEPTH	6,090	
5	WASATCH	5905	5906	3	3	5905	to	6073
	WASATCH	5920	5921	3	3			
	WASATCH	5951	5952	3	3			
	WASATCH	5963	5964	3	3			
	WASATCH	5978	5979	3	3			
	WASATCH	6057	6060	3	9			
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	5,851	
6	WASATCH	5650	5654	4	16	5638	to	5851
	WASATCH	5827	5829	4	8			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	5,595	
	Totals				141	Total Pay		350.5

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01195
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-5C-4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1269 FNL 2606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 05 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047385220000
PHONE NUMBER: 720 929-6100		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/21/2015	<input type="checkbox"/> SPUD REPORT Date of Spud:	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 1022-5C-4 well was returned to production on 1/21/2015 following a temporary abandonment. Please see the attached operations summary report for details. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 17, 2015		
NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/17/2015	

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-5C-4				Spud Conductor: 1/6/2009				Spud date: 1/7/2009			
Project: UTAH-UINTAH				Site: NBU 1022-5C PAD				Rig name no.: MILES-GRAY 1/1			
Event: ABANDONMENT				Start date: 12/29/2014				End date: 1/14/2015			
Active datum: RKB @5,206.00usft (above Mean Sea Level)				UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation			
12/15/2014	7:00 -							REBUILD PROD FACILITIES TO RETURN WELL TO PRODUCTION			
1/12/2015	7:00 - 7:15	0.25	ABANDT	48		P		JSA-SAFETY MEETING			
	7:15 - 8:30	1.25	ABANDT	30	A	P		MIRU MILE WELL SERVICE RIG #1			
	8:30 - 10:30	2.00	ABANDT	30	F	P		N/D WH N/U BOPS, FUNCTION BOP, R/U TBG EQUIP,			
	10:30 - 14:00	3.50	ABANDT	31	I	P		P/U 3 7/8" MILL AND POBS RIH W/ 2 3/8" J-55 TBG NEW, RIH 137 JTS TAG CEMENT TOP @ 4321',			
	14:00 - 17:30	3.50	ABANDT	44	A	P		R/U POWER SWIVEL, PRESSURE TEST CSG AND BOP TO 2000# OK, ESTBG CIRC, MILL OUT CEMENT FROM 4321' TO 4416', CIRC WELL CLEAN, R/D SWIVEL, DRAIN PUMP LINES , P/O 2 JTS, SHUT WELL IN, SDFN			
1/13/2015	7:00 - 7:15	0.25	ABANDT	48		P		JSA-SAFETY MEETING			
	7:15 - 12:00	4.75	ABANDT	44	A	P		R/U SWIVEL, MILL OUT CEMENT FROM 4416' TO 4620', FELL FREE RIH TO 4750', CIRC WELL CLEAN,			
	12:00 - 14:00	2.00	ABANDT	31	I	P		RIH W/ 2 3/8" J-55 TBG, TAG CEMENT AT 7105', R/U SWIVEL			
	14:00 - 18:00	4.00	ABANDT	44	A	P		ESTB CIRC W/ FOAM UNIT, MILL OUT CEMENT FROM 7105' TO 7200', MILL OUT 8K CBP IN 5 MIN W/ 300# DIFF, RIH TO 7260', CIRC WELL CLEAN. R/D SWIVEL, SHUT WELL IN DRAIN UP PUMP AND LINES, SDFN,			
1/14/2015	7:00 - 7:15	0.25	ABANDT	48		P		JSA-SAFETY MEETING			
	7:15 - 9:00	1.75	ABANDT	31	I	P		1600# ON CSG, BLEED DOWN TO PIT, RIH W/ 2 3/8" J-55 TBG TAG SCALE @ 8717', R/U SWIVEL			
	9:00 - 13:00	4.00	ABANDT	44	D	P		ESTB CIRC W/ FOAM UNIT, C/O SCALE FROM 8717' TO 9064' PBDT, CIRC WELL CLEAN, R/D POWER SWIVEL,			
	13:00 - 18:00	5.00	ABANDT					P/O LAY DN 14 JTS ON TRAILER, LAND TBG W/ 275 JTS 2 3/8" J-55 TBG, EOT @ 8692.53', N/D BOPS, WELL STARTED FLOWING OUT TBG, PUMP 70 BBLS WTR DN TBG TO CONTROL WELL, N/U WH, SITP 400#, SICP 500#, R/D UNIT PREPARE TO MOVE OFF LOC,			
								KB = 18.00'			
								HANGER = .83'			
								275 JTS 2 3/8" J-55 TBG = 8671.50'			
								XN-NIPPLE NOTCH, 1.875"= 2.20'			
								EOT = 8692.53'			
								315 JTS 2 3/8" J-55 TBG DELV,			
								275 JTS 2 3/8" J-55 TBG USED			
								40 JTS 2 3/8" J-55 TBG TRANSFER TO 5C			

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-5C-4			Spud Conductor: 1/6/2009			Spud date: 1/7/2009			
Project: UTAH-UINTAH			Site: NBU 1022-5C PAD				Rig name no.: MILES-GRAY 1/1		
Event: ABANDONMENT			Start date: 12/29/2014				End date: 1/14/2015		
Active datum: RKB @5,206.00usft (above Mean Sea Level)				UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation	
1/23/2015	12:00 - 15:00	3.00		37	A	P		JSA: GAS ON LOCATION MOVED IN CASED HOLE SOLUTIONS RU SAME RIH WITH 1 9/16" PERF GUN 4 SPF TAGGEG @ 8674 EOT 8692, PERFED TBG @ 8659-8661 4 SPF, {2-2' GUNS} POOH, RD WIRE LINE SWI	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01195
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-5C-4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1269 FNL 2606 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 05 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047385220000
PHONE NUMBER: 720 929-6111		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 19, 2015		
NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/17/2015	

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-5C-4				Spud Conductor: 1/6/2009				Spud date: 1/7/2009			
Project: UTAH-UINTAH				Site: NBU 1022-5C PAD				Rig name no.: MILES-GRAY 1/1			
Event: ABANDONMENT				Start date: 12/29/2014				End date: 1/14/2015			
Active datum: RKB @5,206.00usft (above Mean Sea Level)				UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation			
12/15/2014	7:00 -							REBUILD PROD FACILITIES TO RETURN WELL TO PRODUCTION			
1/12/2015	7:00 - 7:15	0.25	ABANDT	48		P		JSA-SAFETY MEETING			
	7:15 - 8:30	1.25	ABANDT	30	A	P		MIRU MILE WELL SERVICE RIG #1			
	8:30 - 10:30	2.00	ABANDT	30	F	P		N/D WH N/U BOPS, FUNCTION BOP, R/U TBG EQUIP,			
	10:30 - 14:00	3.50	ABANDT	31	I	P		P/U 3 7/8" MILL AND POBS RIH W/ 2 3/8" J-55 TBG NEW, RIH 137 JTS TAG CEMENT TOP @ 4321',			
	14:00 - 17:30	3.50	ABANDT	44	A	P		R/U POWER SWIVEL, PRESSURE TEST CSG AND BOP TO 2000# OK, ESTBG CIRC, MILL OUT CEMENT FROM 4321' TO 4416', CIRC WELL CLEAN, R/D SWIVEL, DRAIN PUMP LINES , P/O 2 JTS, SHUT WELL IN, SDFN			
1/13/2015	7:00 - 7:15	0.25	ABANDT	48		P		JSA-SAFETY MEETING			
	7:15 - 12:00	4.75	ABANDT	44	A	P		R/U SWIVEL, MILL OUT CEMENT FROM 4416' TO 4620', FELL FREE RIH TO 4750', CIRC WELL CLEAN,			
	12:00 - 14:00	2.00	ABANDT	31	I	P		RIH W/ 2 3/8" J-55 TBG, TAG CEMENT AT 7105', R/U SWIVEL			
	14:00 - 18:00	4.00	ABANDT	44	A	P		ESTB CIRC W/ FOAM UNIT, MILL OUT CEMENT FROM 7105' TO 7200', MILL OUT 8K CBP IN 5 MIN W/ 300# DIFF, RIH TO 7260', CIRC WELL CLEAN. R/D SWIVEL, SHUT WELL IN DRAIN UP PUMP AND LINES, SDFN,			
1/14/2015	7:00 - 7:15	0.25	ABANDT	48		P		JSA-SAFETY MEETING			
	7:15 - 9:00	1.75	ABANDT	31	I	P		1600# ON CSG, BLEED DOWN TO PIT, RIH W/ 2 3/8" J-55 TBG TAG SCALE @ 8717', R/U SWIVEL			
	9:00 - 13:00	4.00	ABANDT	44	D	P		ESTB CIRC W/ FOAM UNIT, C/O SCALE FROM 8717' TO 9064' PBDT, CIRC WELL CLEAN, R/D POWER SWIVEL,			
	13:00 - 18:00	5.00	ABANDT					P/O LAY DN 14 JTS ON TRAILER, LAND TBG W/ 275 JTS 2 3/8" J-55 TBG, EOT @ 8692.53', N/D BOPS, WELL STARTED FLOWING OUT TBG, PUMP 70 BBLS WTR DN TBG TO CONTROL WELL, N/U WH, SITP 400#, SICP 500#, R/D UNIT PREPARE TO MOVE OFF LOC,			
								KB = 18.00'			
								HANGER = .83'			
								275 JTS 2 3/8" J-55 TBG = 8671.50'			
								XN-NIPPLE NOTCH, 1.875"= 2.20'			
								EOT = 8692.53'			
								315 JTS 2 3/8" J-55 TBG DELV,			
								275 JTS 2 3/8" J-55 TBG USED			
								40 JTS 2 3/8" J-55 TBG TRANSFER TO 5C			

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-5C-4			Spud Conductor: 1/6/2009			Spud date: 1/7/2009			
Project: UTAH-UINTAH			Site: NBU 1022-5C PAD				Rig name no.: MILES-GRAY 1/1		
Event: ABANDONMENT			Start date: 12/29/2014				End date: 1/14/2015		
Active datum: RKB @5,206.00usft (above Mean Sea Level)				UWI: 0/10/S/22/E/5/0/NENW/6/PM/N/1,269.00/W/0/2,606.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation	
1/23/2015	12:00 - 15:00	3.00		37	A	P		JSA: GAS ON LOCATION MOVED IN CASED HOLE SOLUTIONS RU SAME RIH WITH 1 9/16" PERF GUN 4 SPF TAGGEG @ 8674 EOT 8692, PERFED TBG @ 8659-8661 4 SPF, {2-2' GUNS} POOH, RD WIRE LINE SWI	